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ABSTRACT

A computer-assisted vocational exploration package has been designed for use in guidance and research by senior high school students in Australia. Intended to complement the work of psychologists, counselors, and guidance officers, the OSSIE (Occupational Selection by Similar Interest Exploration) package relies upon the individual's stated interests, values, and potential educational level to focus on occupational choice. The program, which takes approximately 30-40 minutes to complete, is interactive, self-adaptive, and user-friendly. Six components comprise the package. The introduction is a guide to the package and initial assessment of choices. Using the next five subsystems, the student (1) examines 10 career interest categories and rates the importance of each one, (2) determines/varies the level of education and training sought, (3) rates self and five preferred occupations on 13 work values, (4) chooses and compares all five occupations in a simulated exercise, and (5) evaluates OSSIE and is provided with a summary of his/her responses. Preliminary results from a field trial indicate that students found career guidance more interesting with the use of computers and support previous findings of high user acceptance and liking for interactive guidance programs. (A sample OSSIE transcript is appended.) (YLB)

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Research Report

A COMPUTER PROGRAM FOR EXPERIMENTAL USE IN VOCATIONAL GUIDANCE AND RESEARCH

James A. Athanasou

April, 1984

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A COMPUTER PROGRAM FOR EXPERIMENTAL USE IN VOCATIONAL GUIDANCE AND RESEARCH

James A. Athanasou

This report is for inter-office circulation. Comments and criticisms are solicited but this should not be cited as a reference without the specific permission of the author. An earlier version was presented as a Technical Report and as a paper to the 18th Annual Conference, Australian Psychological Society, 1983.

ABSTRACT

This paper describes an interactive and adaptive computer-assisted guidance program based on a trait factor model of vocational guidance. The initial section provides a general interview format and examination of currently considered occupational alternatives. Users are introduced to vocational interest categories and then undertake a validated self-rating procedure. Self-ratings are reported to subjects in terms of percentile norms based on a sample of 1647 high school students. Interest codes are calculated from self-ratings by six multiple regression equations (N=571) and are used to search 411 occupations from a file. As well, any one of five educational levels can be specified (degree, diploma, certificate, trade, other). Five occupations are selected for examination in terms of work values. Ratings of desired work values are compared to values perceived in five nominated occupations by the use of Osgood's D statistic. Finally, a pair-comparison procedure is used by the subject as a basis for selection from the five occupations, and feed back on the caluclated consistency of choices is provided. Preliminary results from a field trial of high school students indicated that career guidance was interesting with the use of computers. Comparison with clients from traditional guidance interviews showed that a significantly higher proportion of computer-assisted clients were helped.

ACKNOWLEDGMENT

The first support and encouragement for this project came from Professor D. Fitzgerald, Centre for Behavioural Studies in Education, University of New England. The development of this program was based initially on the computer-assisted self-generated vocational assessment of Richard F. Haase (University of Massachusetts). Colin Fraser and Marie Lawson developed VAX versions of the program, Warren French and Val Norris provided me with the documentation for the Burroughs 7700. These programs have found application in a number of settings through the co-operation and assistance of many users - Ross Bishop (La Trobe University), David Ell (Footscray Institute), Marie Lawson (University of Melbourne), Colin Fraser (university of New England), Alan Reid (Box Hill College), Kath Hanna and the staff of the Computer Services Branch have kindly provided the data on work-experience students.

CONTENTS

Perspectives

Rationale

OSSIE Program

Introduction

Interests

Education

Values

Occupational Choices

Evaluation and Report for Users

Hardware

Evaluation

User-Reactions to Computer-Assisted Guidance

Summary

References

APPENDICES

User reactions to OSSIE

OSSIE Transcript

OSSIE Documentation and listings

A COMPUTER PROGRAM FOR EXPERIMENTAL USE IN VOCATIONAL GUIDANCE AND RESEARCH[1]

Computer systems have been used increasingly to provide structured interactions with clients, to facilitate vocational choice, and to disseminate information (Harris, 1972).

Perspectives

The major impetus for the development of these systems was outlined by Cooley (1964), who stressed the use of technology to reduce counsellor time in administrative work, and in searching for information (Impelliteri, 1968; Minor, 1970; Bohn and Super, 1969). Positive characteristics of computer-assisted guidance have been stressed by Harris (1974), namely - high user acceptance, ability to retrieve information, increased vocational maturity of users and cost feasibility.

In addition to these capabilities, computers can provide simultaneous interactive interviews with multiple users, as well as monitor individual responses. That is, the program can record the individual pathway through the process of career exploration. This provides the opportunity for unobtrusive collection of data in the interaction between client and computer.

When the computer is used to explore individual differences, it can also relate these characteristics to occupational data. Computer-assisted guidance may complement those approaches to vocational counselling which have focussed almost entirely on personal assistance with career exploration of interests, values or ability levels. More important is the fact that computers provide the potential for an unbiased, consistent, replicable and structured vocational guidance treatment, which is readily accepted by clients.

(1) An earlier version of this paper was presented at the 18th Annual Conference, Australian Psychological Society, University of Sydney, August 1983.

Rationale

Computer-assisted vocational exploration is consistent with a developmental viewpoint of career choice which asserts that people choose jobs which maximise the compatibility with their socio-cultural image. The individual's group identity more than any other factor is a determinant of the type of compromise made when choosing an occupation. Gottfredson (1981) has proposed that most people within a culture share a cognitive map of occupations, based on factors such as prestige gender, and level of effort. However, given the individual's zone of acceptable alternatives there is still considerable scope for vocational choice.

Within this cognitive map vocational guidance has relied on three constructs to help individuals expand their choices or reach an adequate solution to their vocational uncertainties (a) interests (b) values (c) educational or training potential. This view is also explicit in Holland's (1973) theory. He asserts that individuals seek occupations in which they can use their interests and competencies, and be rewarded for working on what they value.

This paper describes a computer assisted vocational exploration package designed for use in guidance and research by senior high school and college students in Australia. It relies upon the individuals stated interests, values and potential educational level to focus on occupational choices. Designed as an aid for career exploration, the OSSIE (Occupational Selection by Similar Interest Exploration) package seeks to complement the work of psychologists, counsellors and guidance officers.

OSSIE Program

This program provides a five-stage structured presentation (see below): I. INTERESTS, II. EDUCATION, III. WORK VALUES, IV. OCCUPATIONAL CHOICES and V. EVALUATION & REPORT. The program, which takes approximately 30-40 minutes to complete, is interactive, self-adaptive and user-friendly, that is, there are no unexpected actions that may cause program failures. The following sections outline the components of the package.

SUBSYSTEM	What the student does...
Introduction	User-friendly guide to the package and initial assessment of choices
I. INTERESTS	Examines 10 career interest categories and rates the importance of each one
II. EDUCATION	Determines/varies the level of education and training sought by the user
III. WORK VALUES	Rates self and five preferred occupations on thirteen work values.
IV. OCCUPATIONAL CHOICES	Chooses and compares all five occupations in a simulated exercise
V. EVALUATION & REPORT	Subject evaluates OSSIE and is provided with a summary of his/her responses

Introduction

The initial section of the program provides a general interview format and familiarisation with the terminal. Demographic data such as age, sex, referring agency and occupation are stored together with expressed vocational choices, for use by the counsellor at a later date. The use of the reliable Occupational Alternatives Question is based on some earlier research of Slaney (1980). Throughout this initial interaction and familiarisation, responses are checked for errors and inconsistencies. Users are also introduced

to the structure of the program and what to expect.

Interests

The main section of the program involves searching an occupational file based on self-estimates of career interests. Users are introduced to Kuder's (1960) theoretical classification of interests. This covers interests such as Outdoor, Mechanical, Computational, Scientific, Persuasive, Artistic, Literary, Musical, Social Service, and Clerical. Kuder's classification was used since it was established as easily understood and preferred by high school students (Athanasou, 1981).

Users then undertake a validated self-rating procedure (Athanasou & Evans, 1983) in which interests are rated on a 7-point scale from "very high" (7) to "Very low" (1). The interest ratings are used to identify vocational activities, which are reinforcing for an individual.

Based on a sample of 1647 high school students, the interest ratings are reported to subjects in terms of percentile norms for males, females and a combined-sex sample. From these self-ratings, Holland interest codes are calculated by six multiple regression equations (N=571) to produce scores for the following Holland categories - Realistic, Investigative, Artistic, Social, Enterprising and Conventional (Athanasou, 1982). At no time is the subject aware that the self-estimates based on self-ratings of Kuder interests are converted to same-sex standardised z-scores.

The three highest of the standardised interest codes are used to search 431 occupations from a file. The codes can be varied by the user, who is encouraged to explore variations of these codes as well as other combinations.

Education

Users are asked to specify their desired level of education or training at one of five levels : degree, diploma, trade, certificate, other. The list of occupations is scanned to eliminate careers which are inconsistent with the desired level. Once again, the user may vary both interests and education level.

Values

The client then considers what he/she demands from a job, in terms of the work values defined by Super (1973) : altruism, creativity, independence, stimulation, achievement, management, security, prestige, money, surroundings, associates, supervisors and variety. The importance of these to the client are rated on a scale from 1 "quite unimportant" to 5 "very important". The sections on work values and occupational choices were modelled after Haase (1979), however there are significant differences in the programming and verbal content, as well, the statistical intricacies vary greatly. Five occupations are then selected by the client and these are examined in terms of the above thirteen work values. Self-ratings of desired work values are then compared to the values perceived in the five nominated occupations by the use of Osgood's D^2 statistic. The statistic takes account of differences in both the pattern and level of ratings. A summary of the value ratings is provided to the user, together with the ratings of other students (Year 12/University students). Differences between self and occupational ratings are explained to the user.

At this stage, a summary of the highest interests, desired educational level and highest work values are provided to the user,

before proceeding to the next section on occupational choice.

Occupational Choices

Finally, a pair-comparison technique is used by the client for selection between the five occupations, e.g "Would you rather be a lawyer or an office worker?". Occupations are presented randomly by the program, and feedback on the number of times an occupation was chosen is provided. A verbal description of the calculated consistency of the subject's choices is listed. This is based on the computer's calculation of chi-square and a contingency coefficient.

Evaluation and Report for Users

Prior to completion, the program provides a general set of ten evaluation questions adapted from the Interactive Career Guidance System (Butler & Dowsey, 1978). These questions tap the subjective response to the service, an understanding of the programme, and an assessment of the impact of the computer-assisted guidance procedure. These responses, together with the client's background data - interest types, work values, occupational choices - are retained on an auxiliary file. Finally, a summary and report (see below) is provided for the (client's use), and if the overall evaluation showed that the client was not pleased with the service, then he/she is referred to a counsellor.

BEST COPY AVAILABLE

YES
DO YOU UNDERSTAND HOW YOUR EDUCATION AFFECTS CAREER CHOICES?
YES

THAT COMPLETES THIS RUN OF OSSIE JOB.
I'VE ENJOYED TALKING TO YOU TODAY STEVEN
AND I HOPE THAT YOU'VE FOUND THE EXPERIENCE WORTHWHILE,
STIMULATING AND FUN

SEE YOU AGAIN SOMETIME !

O.S.S.I.E.:

OCCUPATIONAL SELECTION BY SIMILAR INTEREST EXPLORATION

CLIENT: STEVEN FRAKES DATE: 23/12/82

STEVEN AGED 23 YEARS, IS EMPLOYED AS A MOTOR MECHANIC
HE WAS REFERRED FOR COMPUTER ASSISTED GUIDANCE BY VOCATIONAL GUIDANCE
AND HE IS UNDECIDED ABOUT WHICH OCCUPATION TO CONSIDER.
STEVEN HAS SELECTED AN EDUCATIONAL LEVEL OF DEGREE

INTERESTS - THINGS YOU LIKE TO DO

IT IS IMPORTANT TO SEE HOW YOUR INTERESTS COMPARE WITH OTHERS.
PERCENTILES WILL GIVE YOU SOME IDEA OF WHERE YOU RANK. IF YOUR
PERCENTILE IS 80% YOUR INTEREST IS GREATER THAN 80% OF OTHERS.
IF IT IS 50% YOU ARE RIGHT IN THE MIDDLE. IF YOU ARE AT THE
25% LEVEL THEN 75% HAVE A GREATER INTEREST THAN YOU.

CODE	OCCUPATIONAL AREA	YOUR RATING	COMPARED TO MEN %	COMPARED TO WOMEN %	COMPARED TO MEN & WOMEN %
O	OUTDOOR	3	7	9	8
ME	MECHANICAL	3	26	60	44
CO	COMPUTATION	5	72	81	77
SC	SCIENTIFIC	5	58	67	63
PE	PERSUASIVE	5	72	72	72
A	ARTISTIC	3	34	20	26
L	LITERARY	6	88	78	83
MU	MUSICAL	2	24	14	18
SS	SOCIAL	5	78	48	62
CL	CLERICAL	6	89	91	90

OCCUPATIONS WHICH MATCH YOUR WORK INTERESTS AND EDUCATION LEVEL

PUBLIC ACCOUNTANT
INDUSTRIAL ENGINEER

WORK VALUES - THINGS THAT ARE IMPORTANT TO YOU

THE WORK VALUE RATINGS YOU SELECTED ARE LISTED BELOW:

WORK VALUE	SELF RATING
SECURITY	5
INDEPENDENCE	5
ALTRUISM	5
SUPERVISORS	4
VARIETY	4
MANAGEMENT	4
ASSOCIATES	3
PRESTIGE	3
ACHIEVEMENT	3

```
          SURROUNDINGS                3
          MONEY                       3
          STIMULATION                 3
          CREATIVITY                  2
WE CALCULATED THE DIFFERENCE BETWEEN YOUR VALUE RATINGS AND THOSE
FOR FIVE OCCUPATIONS.
DIFFERENCES BETWEEN SELF-RATINGS AND OCCUPATIONS
-----------------------------------------------

     PUBLIC ACCOUNTANT              4.12
     INDUSTRIAL ENGINEER            4.12
     LAWYER                         4.38
     MOTOR MECHANIC                 6.63
     OFFICE WORKER                  7.14
OCCUPATIONAL CHOICES
--------------------
FIVE OCCUPATIONS ARE LISTED IN THE ORDER THAT YOU PREFERRED THEM.
YOUR HIGHEST PREFERENCES ARE AT THE TOP.  THESE ARE THE ONES
YOU SELECTED MOST OFTEN.

                    OCCUPATION          NO.. OF TIMES
                                          SELECTED


                    LAWYER                    4
                    INDUSTRIAL ENGINEER       3
                    PUBLIC ACCOUNTANT         2
                    OFFICE WORKER             1
                    MOTOR MECHANIC            0
OVERALL YOUR RESPONSES SHOWED A LEVEL OF CONSISTENCY WHICH WAS
VERY HIGH
THANK YOU FOR .OUR INTEREST IN OSSIE.
WE ARE PLEASED THAT YOU FOUND THE EXPERIENCE WAS USEFUL.
#ET=25:20.7 PT=9.2 IO=3.3
COPYRIGHT JAMES A. ATHANASOU ALL RIGHTS RESERVED 1982


BYE
#VERB EXPECTED. SCANNING

BYE
#END SESSION 6789  ET=28:39.8 PT=9.2 IO=3.3
#USER = LITRMM  13:24:56  12/23/82
```

CLIENTS REPORT AND SUMMARY (Cont'd)

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A sample of the auxiliary file retaining user protocols is provided below. This maintains a file of users and the main aspects of responses for use by the counsellor as part of the career guidance interview.

Hardware

The program was written in FORTRAN. Versions of the program are running on VAX systems[1], Burroughs, Honeywell and Control Data Cybers. References to the special features which are not essential are indicated (see attached documentation). With this provision, the program should be portable to any major installation.

(1) VAX versions of the program are available from the author at cost if a computer tape is supplied and details are specified (e.g. 9 track, 1600 BPI, unlabelled, unblocked, 80 character fixed length, ASCII).

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NAME		SUZANNE	MARK	PETER	MICHELLE	RICKY
SEX		2	1	1	2	1
AGE		15	15	15	15	15
AT SCHOOL		Y	Y	Y	Y	Y
GRADE		10	10	10	10	10
EMPLOYED						
OCCUPATION						
UNEMPLOYED						
OCCUPATIONS*	1		COMPUTER PROGRAMME	SYTEMS ANALYLIS	COMPUTER PROGRAMME	CAR DESIGN
BEING *	2	COMPUTER PROGRAMME	AGRICULTURAL SCIEN	SOFWARE MANAGANING	PAEDIATRICIAN	ACCOUNTANCY
CONSIDERED *	3	POLICEWOMAN	CHEMIST	MEDICINE	PRE-SCHOOL TEACHER	LAW
FIRST CHOICE		3	2	1	4	1
HIGHEST WORK *	1	S	I	I	C	C
INTEREST *	2	I	R	R	A	S
CODES *	3		C			E
EDUCATIONAL LEVEL		1	3	1	2	3
ALTRUISM RATING		3	2	5	5	3
CREATIVITY		3	4	5	4	5
INDEPENDENCE		4	3	1	5	4
INTELLECTUAL STIMUL.		2	4	5	5	4
ACHIEVEMENT		4	4	5	5	4
MANAGEMENT		4	2	5	4	3
SECURITY		5	3	4	4	4
PRESTIGE		4	3	4	3	3
MONEY		5	5	5	4	5
SURROUNDINGS		4	4	2	3	3
ASSOCIATES		5	4	2	3	3
SUPERVISORS		4	3	3	3	3
VARIETY		5	4	4	3	3
OCCUPATION 1		SOCIAL WORKER	COMPUTER PROGRAMMER	DOCTOR	COMPUTER PROGRAMME	CAR DESIGN
OCCUPATION 2		POLICEWOMAN	AGRICULTURAL SCIEN	SYSTEMS ANALYIS	TEACHING	LAW
OCCUPATION 3		COMPUTER OPERATOR	CHEMICAL ENGINEER	SOFTWARE MANAGER	DOCTOR	ACCOUNTANCY
OCCUPATION 4		ECONOMIST	CHEMIST	MEDICINE	DENTIST	ENGINEER
OCCUPATION 5		TEACHER	NUCLEAR PHYSICIST	COMPUTER STUDIES T	VET	RADIO ANNOUNCER
DIFFERENCE*	1	1.46	3.98	6.58	3.32	4.80
VALUES *	2	2.65	5.66	4.69	2.24	4.36
	3	2.83	4.58	6.40	3.16	3.32
	4	3.16	5.00	6.93	3.46	3.46
	5	3.32	8.49	5.74	4.24	1.66
JOBS DESCRIBED GOOD?		1	1	1	1	1
FACILITIES GOOD?		1	1	1	2	1
CHANGED AMBITIONS?		2	2	1	2	2
COMPUTERS INTER.?		1	1	1	1	1
COMPUTERS HELPF.?		1	1	1	1	1
SELF-PICTURE?		1	1	1	1	1
SELF VS. JOB?		1	1	1	1	1
SORTING INFO.?		1	1	1	1	1
WHICH SECTION MOST HELP?						
1. WORK INTEREST		3	1	3	1	1
2. EDUCATIONAL LEVEL						
3. WORK VALUES						
INT. VS. CAREER?		1	1	1	1	1
INT. AFFECT CAREER?		1	1	1	1	1
EDUC. AFFECT CAREER?		1	1	1	1	1

SAMPLE OF AUXILIARY FILE RETAINING USER PROTOCOLS
FOR USE BY COUNSELLORS

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Evaluation

Preliminary results from a field trial of high school students (N=114), indicated that career guidance was more interesting with the use of computers. This interest was independent of any change in career ambitions. The results are summarised in the table below:

USER RESPONSES TO THE EVALUATION QUESTIONS

Evaluation Questions	Percentage Answering 'Yes'(N=114)
Was the number of jobs described good?	88.5%
Were the facilities for individual use good?	90.3%
Have your career ambitions changed?	17.5%
Is career guidance more interesting with the use of computers?	94.7%
Can computers help with career guidance?	95.6%
Did the computer help to build a picture of yourself?	74.5%
Did the computer help to compare yourself with a job?	84.2%
Did the computer help to sort through information?	88.5%
Which section helped you the most?	
1. Work interests	53.5%
2. Education level	7.8%
3. Work values	38.5%
Do you understand your interests in relation to career possibilities?	90.3%
Do you understand how your interests affect career choices?	91.2%
Do you understand how your eduction affects career choices?	98.2%

The lowest response to any question related to whether career ambitions were changed. Comparison with school leavers who had undertaken vocational guidance, showed that computer-assisted guidance was viewed favourably:

	Vocational* Guidance (N=96)	Computers (N=114)
Helpful with career guidance	53%	95.6%
Change in career choice	12%	17.5%

*Source: Seaforth Technical College (Personnel Administration Certificate Final Year Report) - Work Encounters of the Youth Kind, August 1980

Finally, responses to computer-assisted-guidance were investigated in a number of pilot studies, and werefound to be independent of job knowledge, previous vocational exploration, personality factors, general ability and level of vocational decidedness.

User Reactions to Computer-Assisted Guidance

High school students were asked for their ideas and comments about the computer-assisted vocational exploration program OSSIE. it was considered important to document people's reactions to computer-assisted-guidance, rather than provide a detailed content and statistical analysis of user responses.

The eighty comments and criticisms were not edited in any way since they provide useful feedback and an insight into the effects of interaction with a computer programme.

Results support previous findings of high user acceptance and liking for interactive guidance programs. The majority of comments (87.5%) are positive and 55% are uncritical in their acceptance. Around 33% of users qualified their acceptance or provided recommendations for improvements. However, these recommendations were not consistent and indicated that there were large individual differences in response to any human interaction with a computer.

User responses were obtained from 17 groups of high school students, and are listed in chronological order. Further analyses will consider the impact of background factors, such as job knowledge, career decisions, career exploration and general ability on user-reactions.

Summary

The available evidence indicated that computers have obvious applications in career guidance. They can be used to explore personal characteristics and relate them to occupational requirements. Moreover results support previous findings that computer interaction is positively reinforcing and fascinating for many people (Smith & Green, 1980, p.11).

This program operates within a clearly defined trait-factor approach. That is, it assumes "people search for environments and occupations that will permit them to exercise their skills and abilities, to express their attitudes and values, to take on agreeable problems and roles, and to avoid disagreeable ones" (Holland 1973, p.4). Such an approach can complement traditional career counselling which has relied almost entirely on personal assistance, and form part of a total computerised agency service.

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OSSIE

DOCUMENTATION

AND LISTINGS

O S S I E

TRANSCRIPT

(SAMPLE ONLY)

```
LITRAN FOR1

#B7700:1166 CANDF "1.103; YOU ARE ITC321(37)
** NEWS LAST UPDATEDTUESDAY 21 DECEMBER 1982 AT 09:03 TAKE NOTE ***
#SESSION 6789  12:56:16  12/23/82
R LI/OSSIE
#RUNNING 4790
#?



        WELCOME TO  O S S I E  JOB !
        ############################

           O CCUPATIONAL
             -
             S ELECTION BY
               -
               S IMILAR
                 -
                 I NTEREST
                   -
                   E XPLORATION
                     -

PLEASE TYPE IN YOUR NAME AND PRESS THE TRANSMIT KEY WHEN YOU
ARE FINISHED. (IN FACT, WHENEVER YOU HAVE FINISHED ANSWERING
A QUESTION, YOU'LL HAVE TO PRESS 'TRANSMIT' SO I'LL KNOW
YOU'VE FINISHED.)
STEVEN FRAKES
OK, STEVEN FRAKES
HAVE I GOT YOUR NAME RIGHT ?
YES
MAY I CALL YOU STEVEN
YES
MALE OR FEMALE ?
MALE
AND WHAT'S YOUR AGE, STEVEN
25
ARE YOU AT SCHOOL, STEVEN
NO
ARE YOU WORKING, STEVEN
YES
WHAT IS YOUR OCCUPATION, STEVEN
MOTOR MECHANIC
WHO INTRODUCED YOU TO OSSIE JOB ?
VOCATIONAL GUIDANCE
IS THIS THE FIRST TIME YOU'VE RUN OSSIE JOB, STEVEN
YES

TO BE HAPPY IN YOUR WORK, IT IS VERY IMPORTANT TO BE SURE OF
THE THINGS YOU WANT AND LIKE TO DO. THE PROGRAM YOU ARE ABOUT
TO USE IS A WAY OF HELPING PEOPLE CHOOSE OCCUPATIONS WHICH
THEY LIKE. WE WILL NOT CHOOSE A CAREER FOR YOU, BUT WE WILL
MAKE SOME SUGGESTIONS, AND WE WILL HELP YOU TO EXPLORE MANY
JOBS.


LIST THREE OCCUPATIONS THAT YOU ARE CONSIDERING RIGHT NOW.
PRESS THE TRANSMIT KEY AFTER ENTERING EACH OCCUPATION
TECHNICIAN
ENGINEER
SALESMAN
WHICH OCCUPATION IS YOUR FIRST CHOICE?  (IF UNDECIDED TYPE UNDECIDED
```


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OTHERWISE TYPE 1, 2 OR 3 AND PRESS THE TRANSMIT KEY)
[INTERVIEW]
THIS IS A STEP-BY-STEP APPROACH. WE WILL FIRST HELP YOU TO
LEARN MORE ABOUT YOURSELF. THIS IS BECAUSE YOUR CAREER WILL
BE MOST SATISFYING WHEN IT MATCHES YOUR :
    # INTERESTS - THINGS YOU LIKE TO DO
    # EDUCATION - THINGS YOU HAVE LEARNT
    # VALUES - THINGS THAT ARE IMPORTANT TO YOU

WE START WITH INTERESTS.
THEN WE LOOK AT YOUR EDUCATIONAL PLANS AND
MAKE SOME SUGGESTIONS FOR OCCUPATIONS
BASED ON THESE FACTORS.
THEN WE CONSIDER YOUR WORK VALUES
AND ASK YOU TO ENTER SOME OCCUPATIONS
WHICH YOU ARE INTERESTED IN AND COMPARE
THEM WITH YOUR WORK VALUES.
THEN WE PROVIDE YOU WITH A REPORT.
YOU'LL BE ASKED A NUMBER OF QUESTIONS DURING OSSIE
JOB. IF IN DOUBT OF YOUR RESPONSE AT ANY STAGE, JUST TYPE
IN A BLANK AND PRESS THE TRANSMIT KEY. I'LL TRY AND HELP
WITH A LIST OF THE CORRECT RESPONSES.

THE AIM OF THE EXERCISE IS :
    # TO GIVE YOU SOME IDEA OF THE MANY JOBS AVAILABLE TO YOU
    # TO ALLOW YOU TO MAKE CHOICES BETWEEN OCCUPATIONS

WE HOPE THAT THIS PROCESS WILL HELP YOU IN YOUR CAREER
PLANNING. MOST PEOPLE FIND THIS EASY AND ENJOYABLE TO
COMPLETE - HAVE FUN !

YOUR INTERESTS

LISTED BELOW ARE SOME DESCRIPTIONS OF INTERESTS. (FOR EXAMPLE
- OUTDOOR, MECHANICAL, COMPUTATIONAL, SCIENTIFIC INTERESTS
ETC.) THESE GIVE YOU IDEAS ABOUT YOUR LIKES AND DISLIKES
FOR DIFFERENT TYPES OF WORK.
READ THE SHORT DESCRIPTION OF EACH INTEREST CATEGORY.
THEN, DECIDE WHETHER THE STATEMENTS APPLY TO YOU.
SOME OCCUPATIONS ARE NAMED IN EACH CATEGORY. THESE ARE ONLY
EXAMPLES. THERE ARE MANY OTHERS. YOU MAY ALSO FIND THAT
MANY SCHOOL SUBJECTS OR LEISURE TIME ACTIVITIES FIT INTO
YOUR HIGH INTEREST AREAS.
TRY AND DECIDE WHETHER YOU HAVE AN INTEREST IN EACH ACTIVITY
AND ANSWER YES OR NO. (ANSWER YES IF YOU CANNOT MAKE UP YOUR
MIND.)

OUTDOOR INTEREST

MEANS THAT YOU PREFER WORK THAT KEEPS YOU OUTSIDE MOST OF THE
TIME AND USUALLY DEALS WITH ANIMALS AND GROWING THINGS.
FOREST RANGERS, NATURALISTS AND FARMERS ARE AMONG THOSE HIGH
IN OUTDOOR INTERESTS.
YES OR NO ?
NO
MECHANICAL INTEREST

MEANS YOU LIKE TO WORK WITH MACHINES AND TOOLS. JOBS IN THIS
AREA INCLUDE AUTOMOBILE REPAIRMEN, WATCHMAKERS, DRILL PRESS
OPERATORS, AND ENGINEERS.
YES OR NO ?
NO
COMPUTATIONAL INTEREST

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```
---------------------
MEANS YOU LIKE TO WORK WITH NUMBERS. A HIGH SCORE IN THIS
AREA SUGGESTS THAT YOU MIGHT LIKE SUCH JOBS AS BOOKKEEPER,
ACCOUNTANT, OR BANK TELLER.
YES OR NO ?
YES
SCIENTIFIC INTEREST
---------------------
MEANS THAT YOU LIKE TO DISCOVER NEW FACTS AND SOLVE PROBLEMS.
DOCTORS, CHEMISTS, NURSES, ENGINEERS, RADIO REPAIRMEN,
AVIATORS, AND DIETICIANS USUALLY HAVE HIGH SCIENTIFIC
INTERESTS.
YES OR NO ?
YES
PERSUASIVE INTEREST
---------------------
MEANS THAT YOU LIKE TO MEET AND DEAL WITH PEOPLE AND TO
PROMOTE PROJECTS OR THINGS TO SELL. MOST ACTORS, POLITICIANS,
RADIO ANNOUNCERS, MINISTERS, SALESMEN, AND SHOP ASSISTANTS
HAVE HIGH PERSUASIVE INTERESTS.
YES OR NO ?
YES
ARTISTIC INTEREST
-----------------
MEANS YOU LIKE TO DO CREATIVE WORK WITH YOUR HANDS.
IT IS USUALLY WORK THAT HAS 'EYE APPEAL' INVOLVING
ATTRACTIVE DESIGN, COLOURS AND MATERIALS. PAINTERS,
SCULPTORS, ARCHITECTS, DRESS DESIGNERS, HAIRDRESSERS, AND
INTERIOR DECORATORS ALL DO 'ARTISTIC' WORK.
YES OR NO ?
NO
LITERARY INTEREST
-----------------
SHOWS THAT YOU LIKE TO READ AND WRITE. LITERARY JOBS INCLUDE
NOVELIST, HISTORIAN, TEACHER, ACTOR, NEWS REPORTER, EDITOR,
DRAMA CRITIC, AND BOOK REVIEWER.
YES OR NO ?
YES
MUSICAL INTEREST
----------------
SHOWS THAT YOU LIKE GOING TO CONCERTS, PLAYING INSTRUMENTS,
SINGING, OR READING ABOUT MUSIC AND MUSICIANS.
YES OR NO ?
NO
SOCIAL SERVICE INTEREST
-----------------------
INDICATES A PREFERENCE FOR HELPING PEOPLE. NURSES, BOY OR
GIRL SCOUT LEADERS, VOCATIONAL COUNSELLORS, TUTORS, MINISTERS,
PERSONNEL WORKERS, SOCIAL WORKERS, AND HOSPITAL ATTENDANTS
SPEND TIME HELPING PEOPLE.
YES OR NO ?
NO
CLERICAL INTEREST
-----------------
MEANS YOU LIKE OFFICE WORK THAT REQUIRES PRECISION AND
ACCURACY. JOBS SUCH AS BOOKKEEPER, ACCOUNTANT, FILE CLERK,
SALES CLERK, SECRETARY, STATISTICIAN, AND TRAFFIC MANAGER,
FALL IN THIS AREA.
YES OR NO ?
YES


YOUR INTEREST PROFILE
---------------------

LIKE SOME PEOPLE YOU ARE PROBABLY HIGHER IN SOME AREAS OF
```


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INTEREST. THESE ARE THE ACTIVITIES YOU LIKE BEST.
AFTER EACH WORK INTEREST PRINTED, INDICATE HOW MUCH YOU LIKE IT, USING THE FOLLOWING SCALE :

7 - VERY HIGH
6 - HIGH
5 - ABOVE AVERAGE
4 - AVERAGE
3 - BELOW AVERAGE
2 - LOW
1 - VERY LOW

ENTER A BLANK AND THE INTEREST DEFINITION WILL BE DISPLAYED FOR YOU TO READ AGAIN.

#OUTDOOR

OUTDOOR INTEREST

MEANS THAT YOU PREFER WORK THAT KEEPS YOU OUTSIDE MOST OF THE TIME AND USUALLY DEALS WITH ANIMALS AND GROWING THINGS. FOREST RANGERS, NATURALISTS AND FARMERS ARE AMONG THOSE HIGH IN OUTDOOR INTERESTS.

#OUTDOOR
3
#MECHANICAL
3
#COMPUTATION
5
#SCIENTIFIC
5
#PERSUASIVE
5
#ARTISTIC
3
#LITERARY
6
#MUSICAL
2
#SOCIAL
5
#CLERICAL
6

INTEREST PROFILE FOR STEVEN

DATE 23/12/82

CODE	OCCUPATIONAL AREA	YOUR RATING	COMPARED TO MEN %	COMPARED TO WOMEN %	COMPARED TO MEN & WOMEN %
O	OUTDOOR	3	7	9	8
ME	MECHANICAL	3	26	60	44
CO	COMPUTATION	5	72	81	77
SC	SCIENTIFIC	5	58	67	63
PE	PERSUASIVE	5	72	72	72
A	ARTISTIC	3	34	20	26
L	LITERARY	6	88	78	83
MU	MUSICAL	2	24	14	18
SS	SOCIAL	5	78	48	61
CL	CLERICAL	6	89	91	90

IT IS IMPORTANT TO SEE HOW YOUR INTERESTS COMPARE WITH OTHERS. PERCENTILES WILL GIVE YOU SOME IDEA OF WHERE YOU RANK. IF YOUR PERCENTILE IS 80% YOUR INTEREST IS GREATER THAN 80% OF OTHERS. IF IT IS 50% YOU ARE RIGHT IN THE MIDDLE. IF YOU ARE AT THE 25% LEVEL THEN 75% HAVE A GREATER INTEREST THAN YOU.

1.03 6
0.78 4

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```
 0.24    5
-0.05    2
-0.44    3
-0.83    1
   C,S,E

OCCUPATIONS WHICH MATCH YOUR WORK INTERESTS
-------------------------------------------
 BUSINESS (COMMERCIAL) TEACHER
 RECORDS CLERK (PERSONNEL)
 MANUFACTURING CO-ORDINATOR
 INFORMATION OFFICER (TRANSPORT)
 RECEPTIONIST
 TELEPHONIST
EDUCATION
---------

IT IS WORTH LOOKING AT YOUR EDUCATIONAL PLANS.  THE AMOUNT
OF EDUCATION YOU HAVE WILL INFLUENCE THE NUMBER OF OCCUPATIONS
OPEN TO YOU.

THE EDUCATION LEVELS STORED IN OUR FILES ARE :
        A - DEGREE
        B - DIPLOMA
        C - CERTIFICATE
        D - TRADE
        E - GENERAL EDUCATION OR OTHER TRAINING
IF YOU ARE STILL AT SCHOOL YOU SHOULD PICK THE LEVEL YOU ARE AIMING FOR.

ENTER YOUR SELECTED EDUCATIONAL LEVEL
    (ENTER A BLANK TO CHECK THE CODES)
C
        C,S,E

OCCUPATIONS WHICH MATCH YOUR WORK INTERESTS AND EDUCATION LEVEL
--------------------------------------------------------------
 MANUFACTURING CO-ORDINATOR
YOU MAY LIKE TO ALTER YOUR HIGH WORK INTEREST CODES OR YOUR
EDUCATIONAL LEVEL FOR A FURTHER OCCUPATION SEARCH.
DO YOU WISH TO DO THIS?
YES
TYPE IN THE CODE FOR YOUR TWO HIGHEST WORK INTERESTS
  (TYPE IN A BLANK IF YOU WANT TO CHECK THE CODES AND SCORES)
CODE 1.
C
CODE 2.
L
        C,A,
UNFORTUNATELY AT PRESENT WE DO NOT HAVE ANY JOBS ON
FILE WHICH MATCH YOUR CURRENT WORK INTERESTS AND EDUCATIONAL
LEVEL. THIS IS ONLY BECAUSE THE INFORMATION IS NOT YET FULLY
BUILT UP.
YOU MAY LIKE TO ALTER YOUR HIGH WORK INTEREST CODES OR YOUR
EDUCATIONAL LEVEL FOR A FURTHER OCCUPATION SEARCH.
DO YOU WISH TO DO THIS?
YES
TYPE IN THE CODE FOR YOUR TWO HIGHEST WORK INTERESTS
  (TYPE IN A BLANK IF YOU WANT TO CHECK THE CODES AND SCORES)
CODE 1.
C
CODE 2.
CO
WITH THE WORK INTEREST CODES YOU HAVE ENTERED A LARGE
NUMBER OF OCCUPATIONS WILL BE DISPLAYED. PLEASE ENTER A
FURTHER CODE TO ENABLE A MORE ACCURATE LIST
  #TYPE IN A BLANK IF YOU WANT TO CHECK THE CODES AND SCORES
```

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```
CODE 3.
PE
        C,E,

OCCUPATIONS WHICH MATCH YOUR WORK INTERESTS
-------------------------------------------
 DATA PROCESSING WORKER
 POSTAL CLERK
 INVESTMENT ANALYST
 PERSONNEL SECRETARY
 ACCOUNTANT
 CREDIT MANAGER
 CLERK *
 STENOGRAPHER
DO YOU WISH TO ALTER YOUR EDUCATIONAL LEVEL ?
YES
ENTER YOUR SELECTED EDUCATIONAL LEVEL
    (ENTER A BLANK TO CHECK THE CODES)

THE EDUCATION LEVELS STORED IN OUR FILES ARE :
        A - DEGREE
        B - DIPLOMA
        C - CERTIFICATE
        D - TRADE
        E - OTHER

ENTER YOUR SELECTED EDUCATIONAL LEVEL
    (ENTER A BLANK TO CHECK THE CODES)
B
        C,E,

OCCUPATIONS WHICH MATCH YOUR WORK INTERESTS AND EDUCATION LEVEL
--------------------------------------------------------------
 INVESTMENT ANALYST
IF A LARGE NUMBER OF OCCUPATIONS HAVE BEEN DISPLAYED, YOU MAY LIKE TO ENTER
A THIRD, DIFFERENT WORK INTEREST CODE TO ENABLE A MORE SPECIFIC LIST
OF OCCUPATIONS TO BE PRODUCED.  DO YOU WISH TO DO THIS?
NO
YOU MAY LIKE TO ALTER YOUR HIGH WORK INTEREST CODES OR YOUR
EDUCATIONAL LEVEL FOR A FURTHER OCCUPATION SEARCH.
DO YOU WISH TO DO THIS?
YES
TYPE IN THE CODE FOR YOUR TWO HIGHEST WORK INTERESTS
  (TYPE IN A BLANK IF YOU WANT TO CHECK THE CODES AND SCORES)
CODE 1.
CL
CODE 2.
SE
        C,I,

OCCUPATIONS WHICH MATCH YOUR WORK INTERESTS
-------------------------------------------
 PUBLIC ACCOUNTANT
 INDUSTRIAL ENGINEER
 BOOKKEEPING MACHINE OPERATOR
 ESTIMATOR (PUBLISHING)
 IMPORT/EXPORT CLERK
 CALCULATING MACHINE OPERATOR
 ACCOUNTING STATISTICAL CLERK
 OFFSET PRINTING PRESS OPERATOR
 OFFICER WORKER *
 WAGES CLERK
 PROOFREADER
 TYPIST
 ACCOUNTING MACHINE OPERATOR
 OFFICE MACHINE OPERATOR
```

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```
 TELEGRAPH OPERATOR
DO YOU WISH TO ALTER YOUR EDUCATIONAL LEVEL ?
YES
ENTER YOUR SELECTED EDUCATIONAL LEVEL
     (ENTER A BLANK TO CHECK THE CODES)
A
          C.I.

OCCUPATIONS WHICH MATCH YOUR WORK INTERESTS AND EDUCATION LEVEL
--------------------------------------------------------------

 PUBLIC ACCOUNTANT
 INDUSTRIAL ENGINEER
IF A LARGE NUMBER OF OCCUPATIONS HAVE BEEN DISPLAYED, YOU MAY LIKE TO ENTER
A THIRD, DIFFERENT WORK INTEREST CODE TO ENABLE A MORE SPECIFIC LIST
OF OCCUPATIONS TO BE PRODUCED.  DO YOU WISH TO DO THIS?
N
YOU MAY LIKE TO ALTER YOUR HIGH WORK INTEREST CODES OR YOUR
EDUCATIONAL LEVEL FOR A FURTHER OCCUPATION SEARCH.
DO YOU WISH TO DO THIS?
NO
WORK VALUES - THINGS THAT ARE IMPORTANT TO YOU
----------------------------------------------

THE NEXT PART OF THE PROGRAM WILL HELP YOU THINK ABOUT THE TYPE
OF WORK YOU MIGHT LIKE.

YOU WILL BE ASKED A SERIES OF QUESTIONS ABOUT YOURSELF,
AND ABOUT FIVE OCCUPATIONS THAT YOU WILL CHOOSE.
YOU WILL BE ASKED TO THINK ABOUT WHAT YOU WANT FROM YOUR WORK
AND WE HOPE THAT THIS WILL SHOW YOU ANOTHER WAY TO THINK
ABOUT JOBS.

IN THE FIRST PART OF OUR EXERCISE WE WILL CONSIDER THOSE THINGS
THAT ARE IMPORTANT TO YOU.  WE CALL THEM WORK VALUES.

YOU WILL BE ASKED TO RATE THE IMPORTANCE OF THIRTEEN VALUES.
THESE ARE THE KINDS OF SATISFACTIONS YOU WOULD WANT FROM
A JOB.  ANSWER EACH QUESTION ON A SCALE FROM 1 TO 5
WHERE 1 MEANS 'QUITE UNIMPORTANT' AND 5 MEANS 'VERY IMPORTANT'.
     1. ALTRUISM
     -----------

HOW IMPORTANT IS IT FOR YOU TO DO WORK WHICH BENEFITS OTHERS?
5
     2. CREATIVITY
     -------------

HOW IMPORTANT IS IT FOR YOU TO DO WORK IN WHICH YOU CAN
CREATE SOMETHING NEW?
2
     3. INDEPENDENCE
     ---------------

HOW IMPORTANT IS IT FOR YOU TO WORK AS FAST OR AS SLOW AS
YOU WANT?
5
     4. INTELLECTUAL STIMULATION
     ---------------------------

HOW IMPORTANT IS IT FOR YOU TO DO WORK IN WHICH YOU CAN LEARN
MORE ABOUT HOW AND WHY THINGS WORK?
3
     5. ACHIEVEMENT
     --------------

HOW IMPORTANT IS IT FOR YOU TO DO WORK THAT GIVES YOU A FEELING
```


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```
OF HAVING DONE A JOB WELL?
3
     6. MANAGEMENT
     -------------

HOW IMPORTANT IS IT FOR YOU TO DO WORK WHICH YOU CAN PLAN
AND LAY OUT FOR OTHERS TO DO?
4
     7. SECURITY
     -----------

HOW IMPORTANT IS IT FOR YOU TO DO WORK IN WHICH YOU ARE SURE OF
HAVING A JOB EVEN IN HARD TIMES?
5
     8. PRESTIGE
     -----------

HOW IMPORTANT IS IT FOR YOU TO DO WORK IN WHICH PEOPLE LOOK UP
TO YOU?
3
     9. MONEY
     --------

HOW IMPORTANT IS IT FOR YOU TO DO WORK IN WHICH YOU GET A GOOD SALARY?
3
     10. SURROUNDINGS
     ----------------

HOW IMPORTANT IS IT FOR YOU TO WORK IN PLEASANT SURROUNDINGS?
3
     11. ASSOCIATES
     --------------

HOW IMPORTANT IS IT FOR YOU TO HAVE WORK IN WHICH YOUR FELLOW
WORKERS ARE THE KIND OF PEOPLE YOU LIKE?
3
     12. SUPERVISORS
     ---------------

HOW IMPORTANT IS IT FOR YOU TO HAVE WORK IN WHICH YOUR SUPERVISOR
IS FAIR AND SQUARE?
4
     13. VARIETY
     -----------

HOW IMPORTANT IS IT FOR YOU TO HAVE WORK WHERE YOU DO MANY DIFFERENT
THINGS ON THE JOB?
4
NOW IT IS TIME TO LIST THE NAMES OF 5 OCCUPATIONS WHICH YOU THINK
YOU MIGHT LIKE.  USE THE LIST OF THOSE WHICH INTEREST YOU AS A GUIDE.

# AFTER YOU TYPE IN THE NAME OF EACH OCCUPATION PRESS THE
TRANSMIT KEY.
ENTER OCCUPATION 1
PUBLIC ACCOUNTANT
ENTER OCCUPATION 2
INDUSTRIAL ENGINEER
ENTER OCCUPATION 3
LAWYER
ENTER OCCUPATION 4
MOTOR MECHANIC
ENTER OCCUPATION 5
OFFICE WORKER
NOW WE WOULD LIKE YOU TO CONSIDER SOME ASPECTS OF THESE 5 OCCUPATIONS.
YOU WILL BE ASKED TO RATE EACH OCCUPATION ON THE WORK VALUES.
WE UNDERSTAND THAT YOU MAY NOT BE SURE ABOUT SOME ASPECTS OF THE JOBS.
```


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```
BUT MAKE YOUR RATINGS AS ACCURATE AS POSSIBLE.

RATE EACH OF THE FIVE OCCUPATIONS IN TERMS OF THE JOB'S ABILITY TO
PROVIDE YOU WITH THIS.  USE A SCALE FROM 1 TO 5 WHERE 1 IS THE
LOWEST RATING AND 5 IS THE HIGHEST RATING.  PRESS THE TRANSMIT KEY
AFTER EACH RATING.

 <<WORK WHICH BENEFITS OTHERS>>

PUBLIC ACCOUNTANT
3
INDUSTRIAL ENGINEER
3
LAWYER
3
MOTOR MECHANIC
2
OFFICE WORKER
2
 <<WORK IN WHICH YOU CAN CREATE SOMETHING NEW>>

PUBLIC ACCOUNTANT
2
INDUSTRIAL ENGINEER
4
LAWYER
3
MOTOR MECHANIC
2
OFFICE WORKER
1
 <<WORK YOU CAN DO AS FAST OR AS SLOW AS YOU WANT>>

PUBLIC ACCOUNTANT
3
INDUSTRIAL ENGINEER
4
LAWYER
3
MOTOR MECHANIC
3
OFFICE WORKER
3
 <<WORK IN WHICH YOU CAN LEARN MORE ABOUT HOW AND WHY THINGS WORK>>

PUBLIC ACCOUNTANT
2
INDUSTRIAL ENGINEER
4
LAWYER
4
MOTOR MECHANIC
2
OFFICE WORKER
1
 <<WORK THAT GIVES YOU A FEELING OF HAVING DONE A JOB WELL>>

PUBLIC ACCOUNTANT
3
INDUSTRIAL ENGINEER
```


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```
4
LAWYER
5
MOTOR MECHANIC
4
OFFICE WORKER
3
 <<WORK WHICH YOU CAN PLAN AND LAY OUT FOR OTHERS TO DO>>

PUBLIC ACCOUNTANT
4
INDUSTRIAL ENGINEER
5
LAWYER
4
MOTOR MECHANIC
2
OFFICE WORKER
1
 <<WORK IN WHICH YOU ARE SURE OF HAVING A JOB EVEN IN HARD TIMES>>

PUBLIC ACCOUNTANT
3
INDUSTRIAL ENGINEER
3
LAWYER
3
MOTOR MECHANIC
3
OFFICE WORKER
2
 <<WORK IN WHICH PEOPLE LOOK UP TO YOU>>

PUBLIC ACCOUNTANT
3
INDUSTRIAL ENGINEER
3
LAWYER
4
MOTOR MECHANIC
1
OFFICE WORKER
2
 <<WORK IN WHICH YOU GET A GOOD SALARY>>

PUBLIC ACCOUNTANT
4
INDUSTRIAL ENGINEER
3
LAWYER
4
MOTOR MECHANIC
2
OFFICE WORKER
1
 <<WORK IN PLEASANT SURROUNDINGS>>

PUBLIC ACCOUNTANT
3
INDUSTRIAL ENGINEER
2
```


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```
LAWYER
3
MOTOR MECHANIC
1
OFFICE WORKER
3
 <<WORK IN WHICH YOUR FELLOW WORKERS ARE THE KIND OF PEOPLE YOU LIKE>>

PUBLIC ACCOUNTANT
2
INDUSTRIAL ENGINEER
3
LAWYER
4
MOTOR MECHANIC
1
OFFICE WORKER
3
 <<WORK IN WHICH YOUR SUPERVISOR IS FAIR AND SQUARE>>

PUBLIC ACCOUNTANT
3
INDUSTRIAL ENGINEER
4
LAWYER
4
MOTOR MECHANIC
2
OFFICE WORKER
3
 <<WORK WHERE YOU DO MANY DIFFERENT THINGS ON THE JOB>>

PUBLIC ACCOUNTANT
3
INDUSTRIAL ENGINEER
4
LAWYER
4
MOTOR MECHANIC
2
OFFICE WORKER
1
NOW FOR SOME RESULTS
```

VALUE RATINGS OF OCCUPATIONS AND OF SELF

VALUE	SELF	PUBLIC ACCOUNTANT	INDUSTRIAL ENGINEER	LAWYER	MOTOR MECHANIC	OFFICE WORKER	OTHER STUDENTS
ALTRUISM	5	3	3	3	2	2	4.17
CREATIVITY	2	2	4	3	2	1	3.72
INDEPENDENCE	5	3	4	3	3	3	2.77
STIMULATION	3	2	4	4	2	1	3.89
ACHIEVEMENT	3	3	4	5	4	3	4.66
MANAGEMENT	4	4	5	4	2	1	3.12
SECURITY	5	3	3	3	3	2	3.73
PRESTIGE	3	3	3	4	1	2	2.89
MONEY	3	4	3	4	2	1	3.65
SURROUNDINGS	3	3	2	3	1	3	3.94
ASSOCIATES	3	2	3	4	1	3	4.15
SUPERVISORS	4	3	4	4	2	3	3.99
VARIETY	4	3	4	4	2	1	3.93

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```
THESE ARE THE ACTUAL RATINGS THAT YOU GAVE FOR YOURSELF AND FOR
THE 3 OCCUPATIONS.  WE HAVE ALSO INCLUDED THE RATINGS OF
YEAR 12/UNIVERSITY STUDENTS.
YOU CAN NOW EXAMINE ANY DIFFERENCES BETWEEN YOUR RATINGS AND THE
JOB RATINGS.  DIFFERENCES MEAN TWO THINGS:-
    1)  THAT THE JOB DOES NOT OFFER WHAT YOU WANT
    2)  YOU MAY NOT VALUE SOME OTHER ASPECTS OF A JOB.
TO HELP YOU CONSIDER THESE DIFFERENCES WE HAVE CALCULATED
AN OVERALL MEASURE OF THE DIFFERENCES.
DIFFERENCES BETWEEN SELF-RATINGS AND OCCUPATIONS
------------------------------------------------

    PUBLIC ACCOUNTANT                4.12
    INDUSTRIAL ENGINEER              4.12
    LAWYER                           4.38
    MOTOR MECHANIC                   6.63
    OFFICE WORKER                    7.14
THE VALUES IN THE TABLE ARE DIFFERENCE MEASURES.  THEY SHOW HOW MUCH
DISAGREEMENT THERE WAS BETWEEN THE WORK VALUE RATINGS YOU GAVE YOURSELF
AND THOSE THAT YOU GAVE TO EACH JOB.  HIGH VALUES REPRESENT A GREAT
DEGREE OF DIFFERENCE.  YOU SHOULD PROBABLY FOCUS ON THE LOWEST VALUES.
NOW YOU KNOW YOUR HIGHEST INTERESTS

        CLERICAL        LITERARY        COMPUTATION

YOU HAVE ESTIMATED THE LEVEL OF EDUCATION YOU WANT TO
ACHIEVE

        DEGREE

AND YOU HAVE DETERMINED YOUR HIGHEST WORK VALUES

        SECURITY        INDEPENDENCE    ALTRUISM
THE LAST PART OF THE PROGRAM WILL HELP YOU CHOOSE FROM THESE FIVE JOBS.
WE WILL SHOW YOU SEVERAL PAIRS OF THE OCCUPATIONS YOU LISTED.  YOU WILL
BE ASKED TO CHOOSE WHICH OF THE TWO OCCUPATIONS YOU PREFER MOST.
IN SOME CASES THE CHOICE WILL BE DIFFICULT.

    WOULD YOU RATHER BE 1. ..... OR 2. .....

TO SHOW YOUR CHOICE, TYPE IN THE NUMBER NEXT TO THE OCCUPATION YOU
LIKE MOST.  AFTER TYPING 1 OR 2, PRESS THE TRANSMIT KEY ON THE TERMINAL
WOULD YOU RATHER BE

    1. LAWYER                        OR 2. OFFICE WORKER
1
WOULD YOU RATHER BE

    1. PUBLIC ACCOUNTANT             OR 2. INDUSTRIAL ENGINEER
2
WOULD YOU RATHER BE

    1. MOTOR MECHANIC                OR 2. OFFICE WORKER
2
WOULD YOU RATHER BE

    1. INDUSTRIAL ENGINEER           OR 2. LAWYER
2
WOULD YOU RATHER BE

    1. PUBLIC ACCOUNTANT             OR 2. MOTOR MECHANIC
1
WOULD YOU RATHER BE

    1. INDUSTRIAL ENGINEER           OR 2. OFFICE WORKER
1
```


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```
WOULD YOU RATHER BE

    1. LAWYER                        OR 2. MOTOR MECHANIC
1
WOULD YOU RATHER BE

    1. PUBLIC ACCOUNTANT             OR 2. OFFICE WORKER
1
WOULD YOU RATHER BE

    1. INDUSTRIAL ENGINEER           OR 2. MOTOR MECHANIC
1
WOULD YOU RATHER BE

    1. PUBLIC ACCOUNTANT             OR 2. LAWYER
2
WE CAN NOW LIST THESE OCCUPATIONS IN THE ORDER THAT YOU PREFERRED.
YOUR HIGHEST PREFERENCES ARE AT THE TOP.  THESE ARE THE ONES YOU
SELECTED MOST OFTEN.

                    OCCUPATION          NO. OF TIMES
                                          SELECTED

                    LAWYER                    4
                    INDUSTRIAL ENGINEER       3
                    PUBLIC ACCOUNTANT         2
                    OFFICE WORKER             1
                    MOTOR MECHANIC            0
OVERALL YOUR RESPONSES SHOWED A LEVEL OF CONSISTENCY WHICH WAS
VERY HIGH
YOU MAY NOW EITHER FINISH THIS RUN OF OSSIE JOB OR
DO A FURTHER OCCUPATION SEARCH BY ALTERING YOUR HIGH WORK
INTEREST CODES, YOUR WORK VALUES OR YOUR OCCUPATIONAL CHOICES.
DO YOU WISH TO FINISH ?
YES
EVALUATION
----------

BEFORE YOU GO WE'D JUST LIKE TO ASK SOME QUESTIONS TO ENABLE
OSSIE JOB TO BE IMPROVED FOR FUTURE PEOPLE WHO RUN THIS
PROGRAM. JUST ANSWER YES OR NO TO THESE QUESTIONS

WAS THE NUMBER OF JOBS DESCRIBED GOOD ?
YES
WERE THE FACILITIES FOR INDIVIDUAL USE GOOD ?
YES
HAVE YOUR CAREER AMBITIONS CHANGED ?
NO
IS CAREER GUIDANCE MORE INTERESTING WITH THE USE OF COMPUTERS ?
YES
CAN COMPUTERS HELP WITH CAREER GUIDANCE ?
YES
DID THE COMPUTER HELP TO BUILD A PICTURE OF YOURSELF?
YES
DID THE COMPUTER HELP TO COMPARE YOURSELF WITH A JOB ?
YES
DID THE COMPUTER HELP TO SORT THROUGH INFORMATION ?
YES
WHICH SECTION HELPED YOU THE MOST?
    1.  WORK INTERESTS
    2.  EDUCATION LEVEL
    3.  WORK VALUES
1
DO YOU UNDERSTAND YOUR INTERESTS IN RELATION TO CAREER POSSIBILITIES?
YES
DO YOU UNDERSTAND HOW YOUR INTERESTS AFFECT CAREER CHOICES?
```


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YES
DO YOU UNDERSTAND HOW YOUR EDUCATION AFFECTS CAREER CHOICES?
YES

THAT COMPLETES THIS RUN OF OSSIE JOB.
I'VE ENJOYED TALKING TO YOU TODAY STEVEN
AND I HOPE THAT YOU'VE FOUND THE EXPERIENCE WORTHWHILE,
STIMULATING AND FUN

SEE YOU AGAIN SOMETIME !

O.S.S.I.E.:

OCCUPATIONAL SELECTION BY SIMILAR INTEREST EXPLORATION

CLIENT: STEVEN FRAKES DATE: 23/12/82

STEVEN AGED 23 YEARS, IS EMPLOYED AS A MOTOR MECHANIC
HE WAS REFERRED FOR COMPUTER ASSISTED GUIDANCE BY VOCATIONAL GUIDANCE
AND HE IS UNDECIDED ABOUT WHICH OCCUPATION TO CONSIDER.
STEVEN HAS SELECTED AN EDUCATIONAL LEVEL OF DEGREE

INTERESTS - THINGS YOU LIKE TO DO

IT IS IMPORTANT TO SEE HOW YOUR INTERESTS COMPARE WITH OTHERS.
PERCENTILES WILL GIVE YOU SOME IDEA OF WHERE YOU RANK. IF YOUR
PERCENTILE IS 80% YOUR INTEREST IS GREATER THAN 80% OF OTHERS.
IF IT IS 50% YOU ARE RIGHT IN THE MIDDLE. IF YOU ARE AT THE
25% LEVEL THEN 75% HAVE A GREATER INTEREST THAN YOU.

CODE	OCCUPATIONAL AREA	YOUR RATING	COMPARED TO MEN %	COMPARED TO WOMEN %	COMPARED TO MEN & WOMEN %
O	OUTDOOR	3	7	9	8
ME	MECHANICAL	3	26	60	44
CO	COMPUTATION	3	72	81	77
SC	SCIENTIFIC	3	58	67	63
PE	PERSUASIVE	3	72	72	72
A	ARTISTIC	3	34	20	26
L	LITERARY	6	88	78	83
MU	MUSICAL	2	24	14	18
SS	SOCIAL	3	78	48	61
CL	CLERICAL	6	89	91	90

OCCUPATIONS WHICH MATCH YOUR WORK INTERESTS AND EDUCATION LEVEL

PUBLIC ACCOUNTANT
INDUSTRIAL ENGINEER

WORK VALUES - THINGS THAT ARE IMPORTANT TO YOU

THE WORK VALUE RATINGS YOU SELECTED ARE LISTED BELOW:

WORK VALUE	SELF RATING
SECURITY	5
INDEPENDENCE	5
ALTRUISM	5
SUPERVISORS	4
VARIETY	4
MANAGEMENT	4
ASSOCIATES	3
PRESTIGE	3
ACHIEVEMENT	3

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```
        SURROUNDINGS                3
        MONEY                       3
        STIMULATION                 3
        CREATIVITY                  2
WE CALCULATED THE DIFFERENCE BETWEEN YOUR VALUE RATINGS AND THOSE
FOR FIVE OCCUPATIONS.
DIFFERENCES BETWEEN SELF-RATINGS AND OCCUPATIONS
-----------------------------------------------

    PUBLIC ACCOUNTANT               4.12
    INDUSTRIAL ENGINEER             4.12
    LAWYER                          4.58
    MOTOR MECHANIC                  6.63
    OFFICE WORKER                   7.14
OCCUPATIONAL CHOICES
--------------------
FIVE OCCUPATIONS ARE LISTED IN THE ORDER THAT YOU PREFERRED THEM.
YOUR HIGHEST PREFERENCES ARE AT THE TOP.  THESE ARE THE ONES
YOU SELECTED MOST OFTEN.

                OCCUPATION          NO. OF TIMES
                                      SELECTED


                LAWYER                    4
                INDUSTRIAL ENGINEER       3
                PUBLIC ACCOUNTANT         2
                OFFICE WORKER             1
                MOTOR MECHANIC            0
OVERALL YOUR RESPONSES SHOWED A LEVEL OF CONSISTENCY WHICH WAS
VERY HIGH
THANK YOU FOR YOUR INTEREST IN OSSIE.
WE ARE PLEASED THAT YOU FOUND THE EXPERIENCE WAS USEFUL.
NET=25:20.7 PT=9.2 IO=3.3
COPYRIGHT JAMES A. ATHANASOU ALL RIGHTS RESERVED 1982


BYE
HVERB EXPECTED. SCANNING

BYE
HEND SESSION 6789  ET=28:39.8 PT=9.2 IO=3.3
HUSER = LITRMM  13:24:56  12/23/82
```


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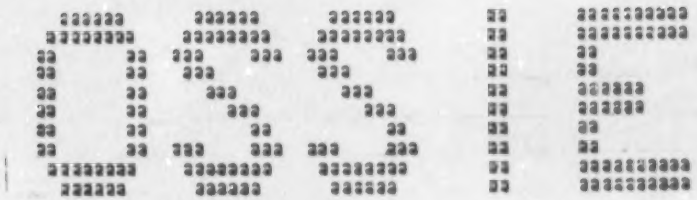

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```
00000020                                                                ??????????
00000040                                                                ??????????
00000100  PROGRAM:   OSSIE JOB                                          ??????????
00000200  --------                                                      ??????????
00000220             A PROGRAM FOR EXPERIMENTAL USE IN VOCATIONAL GUIDANCE ??????????
00000240             AND CAREER EDUCATION                               ??????????
00000300                                                                ??????????
00000400  AUTHOR:    JIM ATHANASOU, COPYRIGHT RESERVED 1981             ??????????
00000500  -------                                                       ??????????
00000600                                                                ??????????
00000700  FUNCTION:  THE PROGRAM EXAMINES A NUMBER OF WORK INTERESTS, AND ON ??????????
00000800  ---------  THE BASIS OF SELF-RATINGS AND DESIRED EDUCATIONAL LEVEL ??????????
00000900             ENTERED BY THE USER PRODUCES A LIST OF SUGGESTED    ??????????
00001000             OCCUPATIONS.  IT THEN CONSIDERS A SERIES OF WORK VALUES ??????????
00001100             AND ASKS THE USER TO ASSESS THEIR OWN CHOICE OF     ??????????
00001200             OCCUPATIONS IN TERMS OF THESE WORK VALUES.  THE USER THEN ??????????
00001300             HAS A CHOICE OF REPEATING ANY OR ALL OF THE ASSESSMENT ??????????
00001400             STEPS AND ON COMPLETION OF THE RUN A SUMMARY REPORT IS ??????????
00001500             PRODUCED FOR HIS/HER BENEFIT.                      ??????????
00001600                                                                ??????????
00001700  INPUT:     FILE 1 - FILE OF OCCUPATIONS, STORED ON DISK.      ??????????
00001800  -----              RECORD SIZE:                               ??????????
00001900                     FILE SIZE:                                 ??????????
00002000                                                                ??????????
00002100             FILE 5 - TERMINAL INPUT BY USER                    ??????????
00002200                      RECORD SIZE:  80 CHARACTERS               ??????????
00002300                                                                ??????????
00002400  OUTPUT:    FILE 6 - TERMINAL OUTPUT TO USER                   ??????????
00002500  ------             RECORD SIZE:  80 CHARACTERS                ??????????
00002600                                                                ??????????
00002700             FILE 9 - FILE OF PROGRAM ASSESSMENT BY USERS,      ??????????
00002800                      STORED ON DISK.                           ??????????
00002900                                                                ??????????
00003000  TERMINAL EXECUTION ON BURROUGHS B7700 COMPUTER:               ??????????
00003100  ----------------------------------------------                ??????????
00003200                                                                ??????????
00003300     TO BEGIN:    AFTER LOGGING ON THE USER TYPES "RUN OSSIE"    ??????????
00003400     --------     AND PRESSES THE "XMIT" KEY.                    ??????????
00003450                                                                ??????????
00003500     INPUT:       THE PROGRAM PROMPTS THE USER FOR INPUT, SO READ ??????????
00003600     -----        THE INSTRUCTIONS AND TYPE IN THE APPROPRIATE   ??????????
00003700                  RESPONSE, THEN PRESS THE "XMIT" KEY.           ??????????
00003750                                                                ??????????
00003800     TO END:      THE PROGRAM CAN BE TERMINATED AT ANY TIME BY   ??????????
00003900     ------       TYPING "?END" AND THEN PRESSING THE "XMIT" KEY; ??????????
00004000                  THEN LOG OFF.                                  ??????????
00004100                                                                ??????????
00004200  IMPLEMENTION OF "OSSIE" ON OTHER MACHINES:                    ??????????
00004300  ------------------------------------------                    ??????????
00004400                                                                ??????????
00004500     THE FOLLOWING CHANGES SHOULD BE MADE TO THE SOURCE CODE TO  ??????????
00004600     ENABLE IMPLEMENTATION ON OTHER MACHINES.                   ??????????
00004700                                                                ??????????
00004800     1)  "$" CARDS (LINES 100-200) SHOULD BE REPLACED BY INSTRUCTIONS ??????????
00004900         FOR COMPILING AND BINDING THE PROGRAM IF THEY ARE REQUIRED. ??????????
00005000                                                                ??????????
00005100     2)  "FILE" CARDS (LINES 300-600) SHOULD BE REPLACED BY CONTROL ??????????
00005200         CARDS TO ATTACH THE NECESSARY FILES TO RUN THE PROGRAM. ??????????
00005300                                                                ??????????
00005400     3)  SUBROUTINES VDSCRN AND CLSCRN ARE USED FOR PAGING ON V.D.U. ??????????
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00005500          SCREENS.  EITHER REPLACE BY SCREEN HANDLING ROUTINE                ??????????
00005600          (PREFERABLY DRIVEN BY USER PROMPTING) OR DELETE.                   ??????????
00005610          LOGICAL VARIABLE "FINISH" IS USED TO RECOGNIZE PROGRAM             ??????????
00005620          TERMINATION BY THE USER WITHIN A SUBROUTINE AND SHOULD             ??????????
00005630          BE TESTED FOR ON RETURN TO THE MAIN PROGRAM.                       ??????????
00005700                                                                            ??????????
00005800      4)  "OPEN" AND "CLOSE" OF FILES - REPLACE IF NECESSARY OR DELETE.      ??????????
00005900          "REWIND" - CHECK COMPILER SYNTAX FOR THIS STATEMENT.               ??????????
00006000                                                                            ??????????
00006100      5)  "REMOTE FILE HANDLING" SECTION (LINES 11200-13000,138100-         ??????????
00006200          138500) - REPLACE BY APPROPRIATE CODE OR DELETE                    ??????????
00006300                                                                            ??????????
00006400      6)  "END=STATEMENT LABEL" CLAUSE IN READ STATEMENTS - REPLACE          ??????????
00006500          BY TEST FOR END OF FILE ON INPUT.                                 ??????????
00006600                                                                            ??????????
00006700      7)  "DATA=STATEMENT LABEL" CLAUSE IN READ STATEMENTS - REPLACE         ??????????
00006800          BY TEST FOR INVALID DATA IF AVAILABLE IN YOUR COMPILER,           ??????????
00006900          OR DELETE.                                                        ??????????
00007000                                                                            ??????????
00007100      8)  ".IS." LOGICAL OPERATOR - USED FOR TESTING EQUALITY OF WORDS      ??????????
00007200          CONTAINING CHARACTER STRINGS.  MAY BE ABLE TO REPLACE WITH        ??????????
00007300          ".EQ." OPERATOR DEPENDING ON THE MACHINE.                         ??????????
00007400                                                                            ??????????
00007500      9)  "IO=NREC" AND "IO=1" CLAUSES IN READ AND WRITE STATEMENTS         ??????????
00007520          (LINES 126500-126900) - USED FOR DIRECT ACCESS READS AND          ??????????
00007600          WRITES TO FILES.  REPLACE WITH APPROPRIATE STATEMENT OR           ??????????
00007700          SEQUENTIAL FORTRAN READ AND WRITE.                                ??????????
00007900                                                                            ??????????
00008000     10)  OUTPUT MESSAGES TO THE USER INSTRUCT HIM/HER TO PRESS THE         ??????????
00008100          "TRANSMIT" KEY AFTER TYPING IN A RESPONSE (EG. LINES 13800-       ??????????
00008200          14000) - CHANGE "TRANSMIT" TO APPROPRIATE KEY USED ON THE         ??????????
00008300          TERMINAL TO SEND THE MESSAGE (EG. "RETURN" OR "SEND").            ??????????
00008400                                                                            ??????????
00008500     11)  THE PROGRAM HAS BEEN IMPLEMENTED ON A BURROUGHS B7700             ??????????
00008600          COMPUTER WHICH IS A 48 BIT WORD MACHINE WITH 8 BITS/BYTE.         ??????????
00008700          "A" FORMAT SPECIFICATIONS AND RELATED REPETITION FACTORS          ??????????
00008800          (EG. "4A6") SHOULD BE CHANGED TO SUIT THE COMPUTER BEING          ??????????
00008900          USED.                                                             ??????????
00009000                                                                            ??????????
00009100      ANY QUERIES OR PROBLEMS ENCOUNTERED PLEASE CALL                       ??????????
00009200      VAL NORRIS, DATA PROCESSING DEVELOPMENT BRANCH.                       ??????????
00009300      PHONE: (02) 237 0220.                                                 ??????????
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```
00010000  $ SET LINEINFO AUTOBIND $
00010050  $ BIND * FROM (XXPFCR)OBJECT/XX/=;
00010100 FILE  1(KIND=DISK,TITLE="(XXPFCR)MASTER/LI/CODES",FILETYPE=7)
00010150 FILE  5(KIND=REMOTE,FILETYPE=7)
00010200 FILE  6(KIND=REMOTE,PROTECTION=SAVE,MAXRECSIZE=80,UNITS=CHARACTERS)
00010250 FILE  9(KIND=DISK,TITLE="(XXPFCR)MASTER/LI/VOCASS",FILETYPE=7)
00010300       DIMENSION ANAME(40),IPRATE(10),IPAIRS(2,45),ITABLE(10,10),
00010350      *          DATE(2),NPERCM(7,10),NPERCF(7,10),NPERCB(7,10),
00010400      *          CODE(10),NSEL(10),NPOINT(6),MCODE(6),JDCODE(10),
00010450      *          WCODE(3),RCODE(3),RECORD(10),ECODE(5),FCODE(3),
00010500      *          STORE(10,100),PEROCC(5),KCNT(13),PRON(2),CONOCC(3,5),
00010550      *          IWKVAL(6,13),STWKVA(13),KWKVAL(13),DIFVAL(5),JCNT(5),
00010600      *          JOBCH(4),JANSW(12),PRON2(2),EDCODE(5),COEFF(11,6),
00010650      *          CORREL(6),FMT1(13),FMT2(11),FMT3(10),F1(1),F2(1),
00010700      *          F3(1),NPRT(10),CMEAN(2,6),STDEV(2,6),JPRATE(10)
00010750       LOGICAL   LCHAR,LSCRN,LRERUN,FINISH
00010800       REAL      YES,NO,MALE,FEMALE,BLANK/1HY,1HN,1HM,1HF,1H /
00010850       DOUBLE PRECISION OUTDOR,MECHAN,COMPUT,SCIENT,PERSUA,ARTIST,
00010900      *                 LITERY,MUSICL,SOCIAL,CLERIC
00010950      * /"OUTDOOR","MECHANICAL","COMPUTATION","SCIENTIFIC","PERSUASIVE",
00011000      *  "ARTISTIC","LITERARY","MUSICAL","SOCIAL","CLERICAL"/,
00011050      *                  EQUIV(10),LEVEL(5),JINTRO(2)
00011100       DOUBLE PRECISION WKVALU(13) / "ALTRUISM","CREATIVITY",
00011150      1   "INDEPENDENCE","STIMULATION","ACHIEVEMENT","MANAGEMENT",
00011200      2   "SECURITY","PRESTIGE","MONEY","SURROUNDINGS","ASSOCIATES",
00011250      3   "SUPERVISORS","VARIETY" /,EDUCN(5) / "DEGREE","DIPLOMA",
00011300      4   "CERTIFICATE","TRADE","OTHER" /
00011350       COMMON /UNITS/ IR,IP,LSCRN,FINISH
00011400       COMMON     OUTDOR,MECHAN,COMPUT,SCIENT,PERSUA,ARTIST,LITERY,MUSICL,
00011450      *           SOCIAL,CLERIC
00011500       COMMON /RANKS/ OCC(5,30),JTABLE(5,5),JSEL(5)
00011550       EQUIVALENCE (EQUIV,OUTDOR),(FMT1(2),F1),(FMT2(2),F2),
00011600      *            (FMT3(2),F3)
00011650       DATA       IN,IO/1,9/ , LCHAR,LSCRN,LRERUN/3*F/,
00011700      *           MCODE/"R","I","A","S","E","C"/,
00011750      *           NPOINT/1,2,3,4,5,6/ , DASH/"-"/,
00011800      1           CODE/"O","ME","CO","SC","PE","A","L","MU","SS","CL"/,
00011850      2           JDCODE/1,1,6,2,5,3,3,3,4,4/,ECODE/"A","B","C","D","E"/,
00011900      3           LEVEL/"VERY LOW","LOW","AVERAGE","HIGH","VERY HIGH"/,
00011950      4           IPAIRS/1,2,3,4,5,6,7,8,9,10,4,9,7,2,10,6,6,3,2,10,
00012000      5                  5,1,8,5,1,9,2,3,7,9,3,8,4,5,5,10,7,6,9,8,
00012050      6                  5,2,3,10,9,6,4,8,7,4,3,5,8,6,10,7,3,1,2,6,
00012100      7                  5,9,1,7,9,2,10,1,3,9,4,1,7,5,4,10,2,8,6,4,
00012150      8                  6,1,7,3,1,8,2,4,8,10/,
00012200      9           NPERCM/1,3,7,22,42,60,85,4,14,26,45,64,79,93,
00012250      A                  5,15,29,50,72,87,96,4,12,22,39,58,75,92,
00012300      B                  4,14,28,50,72,87,97,6,18,34,55,74,88,97,
00012350      C                  7,21,38,59,77,88,96,10,24,35,53,72,85,95,
00012400      D                  4,15,31,56,78,90,98,9,26,41,60,77,89,97/
00012450       DATA       NPERCF/1,4,9,27,50,69,89,14,38,60,80,93,97,99,
00012500      1                  8,22,39,62,91,91,98,5,17,25,48,67,81,94,
00012550      2                  2,9,22,47,72,87,96,3,10,20,39,60,75,91,
00012600      3                  3,10,24,43,63,78,93,4,14,26,46,68,82,94,
00012650      4                  1,4,10,27,48,68,90,8,23,39,61,80,91,98/,
00012700      5           NPERCB/1,3,8,24,47,65,87,9,27,44,64,80,89,97,
00012750      6                  7,19,35,57,77,90,97,5,14,25,44,63,78,93,
00012800      7                  3,11,24,48,72,87,96,4,13,26,46,66,81,93,
00012850      8                  4,15,30,51,69,83,95,6,18,30,49,70,84,95,
00012900      9                  3,9,20,39,61,78,93,9,25,40,61,80,90,97/
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00012950       DATA COEFF / -1.45,.67,1.69,0.8,.12,-.63,-.07,-.39,-.04,-.20,-.18,
00013000      *             -1.57,.33,-.15,0.0,.56,.17,-.04,0.0,-.04,.02,-.12,
00013050      *             -1.40,.21,-.12,.21,-.12,.33,.84,.02,.17,-.07,-0.27,
00013100      *             -1.49,.09,-.27,.1,.04,0.0,.1,.07,-.02,.73,.03,
00013150      *             .19,.09,-.06,.14,-.09,.4,0.0,-.09,-.01,.02,.08,
00013200      *             -1.68,.11,-.16,.51,-.07,.01,.05,-.13,.04,-.05,.78 /
00013250       DATA CMEAN /7.31,3.06,1.91,1.74,3.43,4.35,1.63,3.23,
00013300      *            2.0,2.35,1.83,2.98/
00013350       DATA STDEV /6.79,5.35,2.44,2.28,3.31,4.18,2.12,2.69,
00013400      *            2.30,2.44,2.35,3.70/
00013450       DATA STNRVA / 4.17,3.72,2.77,3.89,4.66,3.12,3.73,2.89,3.65,
00013500      1   3.94,4.15,3.99,3.93 /,PRON,PRON2 / "HE","SHE","HIS","HER" /
00013550       DATA JCNT / 1,2,3,4,5 /,JOBCH / "1","2","3","U" /,JUSEF / 0 /
00013600      1     JSCHOL,JEMPL,PERDCC,JUNEMP,JGRACE / 8 * " ",0 /,
00013650      2     FINISH /.FALSE./,SHOCC /"N"/,CORREL /6*0/,NCJOB /0/
00013700       DATA NPRT /1,2,3,4,5,6,7,8,9,10/
00013750       DATA FMT1 /6H(" ",,6H      ,6HA1,",A,6HGED " ,6H,I2,  ,6H" YEAR,
00013800      *           6HS, IS ,6HIN YEA,6HR "   ,6H,I2,  ,6H" AT S,6HCHOCL",
00013850      *           6H)     /
00013900       DATA FMT2 /6H(" ",,6H      ,6HA1,",A,6HGED " ,6H,I2,  ,6H" YEAR,
00013950      *           6HS, IS ,6HEMPLCY,6HED AS ,6HA ",5A,6H6)    /
00014000       DATA FMT3 /6H(" ",,6H      ,6HA1,",H,6HAS SEL,6HECTED ,6HAN EDU,
00014050      *           6HCATION,6H'L LEV,6HEL OF ,6H",A12)/
00014100 C
00014150 C
00014200 C          THIS VERSION OF OSSIE JOB WAS WRITTEN BY JIM ATHANASOU
00014250 C          AND PROGRAMMED BY WARREN FRENCH FOR EXPERIMENTAL USE
00014300 C          IN VOCATIONAL GUIDANCE AND CAREER EDUCATION.
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00014650 C
00014700 C          (C) COPYRIGHT RESERVED 1981. JAMES ATHANASOU
00014750 C
00014800 C  LIBRARY SUBROUTINES USED
00014850 C  ------------------------
00014900 C          MPLZT1  - RETURNS THE CURRENT DATE IN THE FORM "DD/MM/YY"
00014950 C                    INTO A REAL ARRAY IN THE FORMAT (A6,A2)
00015000 C          MPLZE7  - SORTS THE FIRST INPUT ARRAY AND THE ASSOCIATED
00015050 C                    POINTER ARRAY, THE FINAL ARGUMENT INDICATING
00015100 C                    THE NUMBER OF ELEMENTS TO BE SORTED
00015150 C
00015200 C     ----    DEFINE FORTRAN LOGICAL UNIT NUMBERS
00015250 C
00015300        IR = 5
00015350        IP = 6
00015400 C
00015450        OPEN (IR)
00015500        OPEN (IP)
00015550 C
00015600 C     ----    FIND OUT WHETHER AT HARD COPY OR VDU
00015650 C
00015700 C      INQUIRE(IP,SCREEN(1)=LSCRN)
00015750        LSCRN = .TRUE.
00015800 C
00015850 C     ----    REMOTE FILE HANDLING ROUTINE
00015900 C
00015950        REWIND IP
00016000        WRITE(IP,10,END=20)
00016050     10 FORMAT(/)
00016100        GO TO 40
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00016150     20 INQUIRE(IP,DISPOSITION(1)=DISP)
00016200        IF(DISP.EQ.1) GO TO 40
00016250        JBUSY=1
00016300     30 CALL ZZFGLY(5)
00016350        CLOSE(IP)
00016400        JBUSY=JBUSY+1
00016450        IF(JBUSY.GT.5) GO TO 3550
00016500        WRITE(IP,10,END=30)
00016550 C
00016600     40 IF (LSCRN) CALL CLSCRN
00016650        WRITE(IP,50)
00016700     50 FORMAT(//10X,"WELCOME TO  C S S I E  JOB !"/
00016750       *          10X,28("*")//10X,"A PROGRAM TO HELP YOU LOOK AT CAREERS"
00016800       1          //13X,"O CCUPATIONAL"/13X,"-"/
00016850       2          15X,"S ELECTION BY"/15X,"-"/17X,"S IMILAR"/17X,"-"/
00016900       3          19X,"I NTEREST"/19X,"-"/21X,"E XPLORATION"/21X,"-"//
00016950       4 " PLEASE TYPE IN YOUR FULL NAME"
00017000       4 " AND PRESS THE TRANSMIT KEY WHEN YOU"/
00017050       5 " ARE FINISHED. (IN FACT, WHENEVER YOU HAVE FINISHED ANSWERING"/
00017100       6 " A QUESTION, YOU'LL HAVE TO PRESS 'TRANSMIT' SO I'LL KNOW"/
00017150       7 " YOU'VE FINISHED.)")
00017200     60 READ(IR,70,END=3570,DATA=90) ANAME
00017250     70 FORMAT(40A1)
00017300        DO 80 I=1,40
00017350          J=41-I
00017400          IF(.NOT.ANAME(J).IS.BLANK) GO TO 110
00017450     80 CONTINUE
00017500     90 WRITE(IP,100)
00017550    100 FORMAT(" TRY TYPING YOUR NAME AGAIN. ASK ANYONE WHO WORKS HERE"/
00017600       *       " FOR HELP IF YOU'RE HAVING TROUBLE)")
00017650        IERR=IERR+1
00017700        IF(IERR.GT.3) GO TO 3530
00017750        GO TO 60
00017800 C
00017850    110 NMLEN=J
00017900        WRITE(IP,120) ANAME
00017950    120 FORMAT(" OK, ",40A1/" HAVE I GOT YOUR NAME RIGHT ?")
00018000        READ(IR,130,END=3570) RESP
00018050    130 FORMAT(A1)
00018100        IF(RESP.IS.YES) GO TO 150
00018150        WRITE(IP,160)
00018200    140 FORMAT(" OK, TYPE YOUR NAME IN AGAIN")
00018250        GO TO 60
00018300    150 LCHAR = .FALSE.
00018350        DO 170 I=1,NMLEN
00018400          IF(.NOT.ANAME(I).IS.BLANK) GO TO 160
00018450          IF(.NOT.LCHAR) GO TO 170
00018500          GO TO 180
00018550    160   LCHAR=.TRUE.
00018600    170 CONTINUE
00018650 C
00018700    180 IF(I.GE.NMLEN) GO TO 200
00018750        NSLEN=I - 1
00018800        WRITE(IP,190)(ANAME(I),I=1,NSLEN)
00018850    190 FORMAT(" MAY I CALL YOU ",40A1)
00018900        READ(IR,130) RESP
00018950        IF(RESP.IS.YES) NMLEN=NSLEN
00019000 C
00019050    200 WRITE(IP,210)
00019100    210 FORMAT(" MALE OR FEMALE ?")
00019150    220 READ(IR,130,END=3570,DATA=230) RESP
00019200        IF(RESP.IS.MALE)JSEX=1
00019250        IF(RESP.IS.FEMALE)JSEX=2
00019300        IF(JSEX.GT.0) GO TO 250
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00019350   230 WRITE(IP,240)
00019400   240 FORMAT(" JUST ENTER M FOR MALE OR F FOR FEMALE, PLEASE.")
00019450       GO TO 220
00019500 C
00019550   250 WRITE(IP,260) (ANAME(I),I=1,NMLEN)
00019600   260 FORMAT(" AND WHAT'S YOUR AGE, ",40A1)
00019650       IERR=0
00019700   270 READ(IR,280,END=3570,DATA=290) JAGE
00019750   280 FORMAT(I2)
00019800       IF(JAGE.GT.11.AND.JAGE.LT.55) GO TO 310
00019850   290 WRITE(IP,300)
00019900   300 FORMAT(" JUST ENTER YOUR PROPER AGE IN YEARS, PLEASE.")
00019950       IERR=IERR+1
00020000       IF(IERR.GT.3) GO TO 3530
00020050       GO TO 270
00020100 C
00020150   310 WRITE (IP,320) (ANAME(I),I=1,NMLEN)
00020200   320 FORMAT (" ARE YOU AT SCHOOL, ",40A1)
00020250       IERR=0
00020300   330 READ(IR,340,END=3570,DATA=350) JSCHOL
00020350   340 FORMAT(A1)
00020400       IF (JSCHOL.IS.YES) GO TO 370
00020450       IF (JSCHOL.IS.NO) GO TO 430
00020500   350 WRITE(IP,360)
00020550   360 FORMAT(" JUST TYPE Y FOR YES OR N FOR NO, PLEASE.")
00020600       IERR=IERR+1
00020650       IF(IERR.GT.3) GO TO 3530
00020700       GO TO 330
00020750 C
00020800   370 WRITE (IP,380)
00020850   380 FORMAT (" WHAT YEAR ARE YOU IN ?")
00020900       IERR=0
00020950   390 READ (IR,400,END=3570,DATA=410) JGRADE
00021000   400 FORMAT (I2)
00021050       IF (JGRADE .GE. 7 .AND. JGRADE .LE. 12) GO TO 560
00021100   410 IERR=IERR+1
00021150       IF(IERR.GT.3) GO TO 3530
00021200       WRITE (IP,420)
00021250   420 FORMAT (" JUST TYPE IN THE YEAR PLEASE ")
00021300       GO TO 390
00021350 C
00021400   430 WRITE (IP,440) (ANAME(I),I=1,NMLEN)
00021450   440 FORMAT (" ARE YOU WORKING, ",40A1)
00021500       IERR=0
00021550   450 READ (IR,460,END=3570,DATA=470) JEMPL
00021600   460 FORMAT (A1)
00021650       IF (JEMPL .IS. YES) GO TO 480
00021700       IF (JEMPL .IS. NO) GO TO 510
00021750   470 IERR=IERR+1
00021800       IF(IERR.GT.3) GO TO 3530
00021850       WRITE (IP,360)
00021900       GO TO 450
00021950 C
00022000   480 WRITE (IP,490) (ANAME(I),I=1,NMLEN)
00022050   490 FORMAT (" WHAT IS YOUR OCCUPATION, ",40A1)
00022100       READ (IR,500,END=3570,DATA=560) PERCCC
00022150   500 FORMAT (5A6)
00022200       GO TO 560
00022250 C
00022300   510 WRITE (IP,520) (ANAME(I),I=1,NMLEN)
00022350   520 FORMAT (" ARE YOU CURRENTLY LOOKING FOR WORK, ",40A1)
00022400       IERR=0
00022450   530 READ (IR,540,END=3570,DATA=550) JUNEMP
00022500   540 FORMAT (A1)
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00022550       IF (JUNEMP .IS. YES .OR. JUNEMP .IS. NO) GO TO 560
00022600   550 IERR=IERR+1
00022650       IF(IERR.GT.3) GO TO 3530
00022700       WRITE (IP,360)
00022750       GO TO 530
00022800 C
00022850   560 WRITE (IP,570)
00022900   570 FORMAT (" WHO INTRODUCED YOU TO OSSIE JOB ?")
00022950       READ (IR,580,END=3570,DATA=590) JINTRO
00023000   580 FORMAT (2A12)
00023050 C
00023100   590 WRITE(IP,600) (ANAME(I),I=1,KNLEN)
00023150   600 FORMAT(" IS THIS THE FIRST TIME YOU'VE RUN OSSIE JOB, ",40A1)
00023200   610 READ(IR,130,END=3570,DATA=620) RESP
00023250       IF(RESP.IS.NO) GO TO 660
00023300       IF(RESP.IS.YES) GO TO 640
00023350   620 WRITE(IP,630)
00023400   630 FORMAT(" JUST TYPE Y FOR YES OR N FOR NO, PLEASE.")
00023450       GO TO 610
00023500 C
00023550   640 IF (LSCRN) CALL CLSCRN
00023600   650 WRITE (IP,670)
00023650   670 FORMAT (" BEFORE WE BEGIN TO EXPLORE CAREERS,",
00023700      * /" LIST THREE OCCUPATIONS THAT YOU ARE CONSIDERING",
00023750      1 " RIGHT NOW."/" PRESS THE TRANSMIT KEY AFTER ENTERING EACH",
00023800      2 " OCCUPATION")
00023850       READ (IR,680,END=3570,DATA=690) (((CONOCC(I,J),J=1,5),I=1,3)
00023900   680 FORMAT (5A6)
00023950   690 WRITE (IP,700)
00024000   700 FORMAT (" WHICH OCCUPATION IS YOUR FIRST CHOICE?  (IF UNDECIDED",
00024050      1 " TYPE UNDECIDED"/" OTHERWISE TYPE 1, 2 OR 3 AND PRESS THE",
00024100      2 " TRANSMIT KEY)")
00024150   710 READ (IR,720,END=3570,DATA=740) JCHOIC
00024200   720 FORMAT (A1)
00024250       DO 730 I = 1,4
00024300          IF (JCHOIC .IS. JOBCH(I)) JCHOIC = I
00024350   730 CONTINUE
00024400       IF (JCHOIC .GE. 1 .AND. JCHOIC .LE.4) GO TO 760
00024450   740 WRITE (IP,750)
00024500   750 FORMAT (" PLEASE ENTER THE NUMBER 1, 2 OR 3 OR 'UNDECIDED'.")
00024550       GO TO 710
00024600   760 IF (RESP .IS. NO) GO TO 960
00024650       IF (LSCRN) CALL CLSCRN
00024700       WRITE(IP,762)
00024750   762 FORMAT(/" CAREER PLANNING"/" ",15("-")//)
00024800       WRITE(IP,650)
00024850   650 FORMAT(/
00024900      1 "  IT IS VERY IMPORTANT TO BE SURE OF"/
00024950      2 " THE THINGS YOU WANT AND LIKE TO DO. THE PROGRAM YOU ARE ABOUT"/
00025000      3 " TO USE IS A WAY OF HELPING PEOPLE CHOOSE OCCUPATIONS WHICH"/
00025050      4 " THEY LIKE. WE WILL NOT CHOOSE A CAREER FOR YOU, BUT WE WILL"/
00025100      5 " MAKE SOME SUGGESTIONS, AND WE WILL HELP YOU TO EXPLORE MANY"/
00025150      6 " JOBS."//)
00025200       WRITE (IP,770)
00025250   770 FORMAT(" THIS IS A STEP-BY-STEP APPROACH TO CAREER PLANNING.",
00025300      * /" WE WILL FIRST HELP YOU TO",
00025350      1 /" LEARN MORE ABOUT YOURSELF. THIS IS BECAUSE YOUR",
00025400      2 " CAREER WILL"/" BE MOST SATISFYING WHEN IT MATCHES YOUR :"/
00025450      3 5X,"# INTERESTS  - THINGS YOU LIKE TO DO"/
00025500      4 5X,"# EDUCATION  - THINGS YOU HAVE LEARNT"/
00025550      5 5X,"# VALUES     - THINGS THAT ARE IMPORTANT TO YOU"//
00025600      6 " WE START WITH INTERESTS."/
00025650      7 " THEN WE LOOK AT YOUR EDUCATIONAL PLANS AND"/
00025700      8 " MAKE SOME SUGGESTIONS FOR OCCUPATIONS"/
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00025750      9 " BASED ON THESE FACTORS."/
00025800      A " THEN WE CONSIDER YOUR WORK VALUES"/
00025850      B " AND ASK YOU TO ENTER SOME OCCUPATIONS"/
00025900      C " WHICH YOU ARE INTERESTED IN AND COMPARE"/
00025950      D " THEM WITH YOUR WORK VALUES."/
00026000      E " THEN WE PROVIDE YOU WITH A REPORT.")
00026050       IF(LSCRN) CALL VGSCRN
00026100       IF (FINISH) GO TO 3570
00026150       WRITE(IP,780)
00026200  780 FORMAT(" YOU'LL BE ASKED A NUMBER OF QUESTIONS DURING DSSIE"/
00026250     1 " JOB. IF IN DOUBT OF YOUR RESPONSE AT ANY STAGE, JUST TYPE"/
00026300     2 " IN A BLANK AND PRESS THE TRANSMIT KEY. I'LL TRY AND HELP"/
00026350     3 " WITH A LIST OF THE CORRECT RESPONSES.")
00026400       WRITE(IP,790)
00026450  790 FORMAT(/" THE AIM OF THE EXERCISE IS :"/
00026500     1 5X,"# TO GIVE YOU SOME IDEA OF THE MANY JOBS AVAILABLE TO YOU"/
00026550     2 5X,"# TO ALLOW YOU TO MAKE CHOICES BETWEEN OCCUPATIONS"//
00026600     3 " WE HOPE THAT THIS PROCESS WILL HELP YOU IN YOUR CAREER "/
00026650     4 " PLANNING. MOST PEOPLE FIND THIS EASY AND ENJOYABLE TO"/
00026700     5 " COMPLETE - HAVE FUN !"//)
00026750       IF(LSCRN) CALL VGSCRN
00026800       IF (FINISH) GO TO 3570
00026850       WRITE(IP,800)
00026900  800 FORMAT(
00026950     6 " YOUR INTERESTS"/1X,14("-")//
00027000     7 " LISTED BELOW ARE SOME DESCRIPTIONS OF INTERESTS. (FOR EXAMPLE"/
00027050     8 " - OUTDOOR, MECHANICAL, COMPUTATIONAL, SCIENTIFIC INTERESTS"/
00027100     9 " ETC.)  THESE GIVE YOU IDEAS ABOUT YOUR LIKES AND DISLIKES"/
00027150     A " FOR DIFFERENT TYPES OF WORK."/
00027200     B " READ THE SHORT DESCRIPTION OF EACH INTEREST CATEGORY."/
00027250     C " THEN, DECIDE WHETHER THE STATEMENTS APPLY TO YOU."/,
00027300     C " SOME OCCUPATIONS ARE NAMED IN EACH CATEGORY.  THESE ARE ONLY"/
00027350     D " EXAMPLES.  THERE ARE MANY OTHERS. YOU MAY ALSO FIND THAT"/
00027400     E " MANY SCHOOL SUBJECTS OR LEISURE TIME ACTIVITIES FIT INTO"/
00027450     F " YOUR HIGH INTEREST AREAS."/)
00027500       IF (LSCRN) CALL VGSCRN
00027550       IF (FINISH) GO TO 3570
00027600  960 IF (LSCRN) CALL CLSCRN
00027650       WRITE(IP,970)
00027700  970 FORMAT(//" YOUR INTEREST PROFILE"/1X,21("-")//
00027750     1 " LIKE SOME PEOPLE YOU ARE PROBABLY HIGHER IN SOME AREAS OF"/
00027800     2 " INTEREST. THESE ARE THE ACTIVITIES YOU LIKE BEST."/
00027850     3 " AFTER EACH WORK INTEREST PRINTED, INDICATE HOW MUCH YOU LIKE"/
00027900     4 " IT, USING THE FOLLOWING SCALE :"/
00027950     5 10X,"7 - VERY HIGH"/10X,"6 - HIGH"/10X,"5 - ABOVE AVERAGE"/
00028000     6 10X,"4 - AVERAGE"/10X,"3 - BELOW AVERAGE"/10X,"2 - LOW"/
00028050     7 10X,"1 - VERY LOW"//
00028100     8 " ENTER A BLANK AND THE INTEREST DEFINITION WILL BE DISPLAYED"/
00028150     9 " FOR YOU TO READ AGAIN."/)
00028200       WRITE(IP,810)
00028250  810 FORMAT("0OUTDOOR INTEREST"/1X,16("-")/
00028300     1 " MEANS THAT YOU LIKE TO WORK AND MOVE ABOUT OUTSIDE,"/
00028350     2 " LIKE SURVEYORS AND SPORTSMEN/SPORTSWOMEN.  IT ALSO INVOLVES"/
00028400     3 " CARING FOR ANIMALS AND GROWING THINGS - FARMERS, FORESTERS,"/
00028450     4 " LANDSCAPE GARDENERS, ARE AMONG THOSE HIGH"/
00028500     5 " IN OUTDOOR INTERESTS.")
00028550  820 CALL VGPRAT(OUTDOR,IPRATE,1)
00028600       IF (FINISH) GO TO 3570
00028650       WRITE(IP,830)
00028700  830 FORMAT("0MECHANICAL INTEREST"/1X,19("-")/
00028750     1 " MEANS YOU LIKE TO WORK MAINLY WITH TOOLS AND EQUIPMENT."/
00028800     2 " IT INVOLVES MAKING AND FIXING, THINGS AS WELL AS OPERATING"/
00028850     3 " MACHINES.  JOBS IN THIS AREA INCLUDE PILOTS, DRIVERS,"/
00028900     4 " TECHNICIANS AND ENGINEERS.")
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00028950    990 CALL VGPRAT(MECHAN,IPRATE,2)
00029000        IF (FINISH) GO TO 3570
00029050        WRITE(IP,840)
00029100    840 FORMAT("0COMPUTATIONAL INTEREST"/1X,22("-")/
00029150       1 " MEANS YOU LIKE TO WORK WITH NUMBERS, DO CALCULATIONS AND USE"/
00029200       2 " MATHEMATICS AS IN FINANCE, COMPUTERS, STATISTICS AND OFFICE"/
00029250       3 " WORK.  A HIGH SCORE IN THIS AREA MEANS THAT YOU MIGHT LIKE"/
00029300       4 " SUCH JOBS AS COMPUTER PROGRAMMER, ACCOUNTANT OR CASHIER")
00029350        CALL VGPRAT(COMPUT,IPRATE,3)
00029400        IF (FINISH) GO TO 3570
00029450        WRITE(IP,850)
00029500    850 FORMAT("0SCIENTIFIC INTEREST"/1X,19("-")/
00029550       1 " MEANS YOU LIKE TO DISCOVER IDEAS, OBSERVE, INVESTIGATE AND"/
00029600       2 " EXPERIMENT.  DOCTORS, PHARMACISTS, ZOOLOGISTS, DENTISTS,"/
00029650       3 " CHEMISTS, PHYSICTHERAPISTS HAVE HIGH SCIENTIFIC INTERESTS.")
00029700        CALL VGPRAT(SCIENT,IPRATE,4)
00029750        IF (FINISH) GO TO 3570
00029800        WRITE(IP,860)
00029850    860 FORMAT("0PERSUASIVE INTEREST"/1X,19("-")/
00029900       1 " MEANS YOU LIKE MEETING PEOPLE, TALKING, DISCUSSING AND"/
00029950       2 " INFLUENCING OTHERS, LIKE LAW, POLITICS, OR SELLING."/
00030000       3 " IT ALSO INVOLVES BUSINESS RELATIONS WITH PEOPLE, AS WITH"/
00030050       4 " TRAVEL AGENTS, STEWARDS/STEWARDESSES, "
00030100       5 "  EXECUTIVES AND MANAGERS.")
00030150        CALL VGPRAT(PERSUA,IPRATE,5)
00030200        IF (FINISH) GO TO 3570
00030250        WRITE(IP,870)
00030300    870 FORMAT("0ARTISTIC INTEREST"/1X,17("-")/
00030350       1 " MEANS YOU LIKE TO DESIGN AND CREATE ARTISTIC OBJECTS,"/
00030400       2 " APPRECIATE BEAUTIFUL THINGS AROUND YOU, PRACTISE DESIGN,"/
00030450       3 " ARCHITECTURE, DECORATING OR DISPLAY WORK.  ARTISTS, ACTORS,"/
00030500       4 " COMMERCIAL ARTISTS, PHOTOGRAPHERS, SIGN WRITERS, AND THOSE"/
00030550       5 " IN DRAFTING ALL DO 'ARTISTIC' WORK.")
00030600        CALL VGPRAT(ARTIST,IPRATE,6)
00030650        IF (FINISH) GO TO 3570
00030700        WRITE(IP,880)
00030750    880 FORMAT("0LITERARY INTEREST"/1X,17("-")/
00030800       1 " MEANS YOU LIKE BOOKS, READING, WRITING, DEALING WITH AND"/
00030850       2 " APPRECIATING WORDS AND/OR IDEAS.  LITERARY JOBS INCLUDE"/
00030900       3 " WRITERS, EDITORS, REPORTERS AND ADVERTISING COPY-WRITERS.")
00030950        CALL VGPRAT(LITERY,IPRATE,7)
00031000        IF (FINISH) GO TO 3570
00031050        WRITE(IP,890)
00031100    890 FORMAT("0MUSICAL INTEREST"/1X,16("-")/
00031150       1 " MEANS YOU LIKE COMPOSING, ARRANGING, CONDUCTING, SINGING OR"/
00031200       2 " PLAYING MUSICAL INSTRUMENTS.  DANCERS, DISC JOCKEYS,"/
00031250       3 " MUSICIANS, RADIO AND TELEVISION WORK"/
00031300       4 " INVOLVE 'MUSICAL' INTERESTS")
00031350        CALL VGPRAT(MUSICL,IPRATE,8)
00031400        IF (FINISH) GO TO 3570
00031450        WRITE(IP,900)
00031500    900 FORMAT("0SOCIAL SERVICE INTEREST"/1X,23("-")/
00031550       1 " MEANS YOU ARE CONCERNED ABOUT INDIVIDUALS, UNDERSTANDING"/
00031600       2 " PEOPLE AND HELPING THEM OVERCOME THEIR PROBLEMS, LIKE"/
00031650       3 " CHILDCARE WORKERS, SOCIAL AND WELFARE WORKERS AND NURSING."/
00031700       4 " IT CAN ALSO INCLUDE TEACHING OR OTHER SERVICES TO SCHOOLS"/
00031750       5 " LIKE LIBRARIANS OR EVEN MORE GENERAL THINGS LIKE SOCIOLOGY.")
00031800        CALL VGPRAT(SOCIAL,IPRATE,9)
00031850        IF (FINISH) GO TO 3570
00031900        WRITE(IP,910)
00031950    910 FORMAT("0CLERICAL INTEREST"/1X,17("-")/
00032000       1 " MEANS YOU LIKE OFFICE WORK WHICH INVOLVES ORGANISING AND"/
00032050       2 " BEING ACCURATE.  AT HIGHER LEVELS THIS INVOLVES PLANNING AND"/
00032100       3 " CONTROLLING BUSINESS ACTIVITIES.  JOBS SUCH AS SECRETARY,"/
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00032150      4 " ACCOUNTANT, BOOKKEEPERS, OFFICE WORKERS, RECEPTIONISTS,"/
00032200      5 " BANK CLERKS AND COMPUTER OPERATORS FALL IN THIS AREA")
00032250       CALL VGPRAT(CLERIC,IPRATE,10)
00032300       IF (FINISH) GO TO 3570
00032350 C
00032400 C     ----     PRINT INTEREST RATINGS
00032450 C
00032500  1080 IF (LSCRN) CALL CLSCRN
00032550       WRITE(IP,1090) (ANAME(I),I=1,NPLEN)
00032600  1090 FORMAT("1INTEREST PROFILE FOR ",40A1)
00032650       WRITE(IP,1100) (DASH,I=1,NPLEN)
00032700  1100 FORMAT(1X,21("-"),40A1)
00032750       CALL MPLZT1(DATE)
00032800       WRITE(IP,1110) DATE
00032850  1110 FORMAT(33X,"DATE ",A6,A2/
00032900      1 " CODE  OCCUPATIONAL YOUR     COMPARED  COMPARED  COMPARED TO"/
00032950      2 7X,"AREA",9X,"RATING",3X,"TO MEN    TO WOMEN  MEN & WOMEN"/
00033000      3 32X,"I",9X,"I",10X,"I")
00033050       DO 1130 I=1,10
00033100         NPM = NPERCM(IPRATE(I),I)
00033150         NPF = NPERCF(IPRATE(I),I)
00033200         NPB = NPERCB(IPRATE(I),I)
00033250         WRITE(IP,1120) CODE(I),EQUIV(I),IPRATE(I),NPM,NPF,NPB
00033300  1120    FORMAT(2X,A2,3X,A12,3X,I1,8X,I2,8X,I2,9X,I2)
00033350  1130 CONTINUE
00033400       WRITE(IP,1140)
00033450  1140 FORMAT(/" LOOK CAREFULLY AT THIS TABLE."/
00033500     ." LOOK FOR YOUR HIGHEST AND LOWEST SCORES."/
00033550      1" IT IS IMPORTANT TO SEE HOW YOUR INTERESTS COMPARE WITH OTHERS."/
00033600      2" PERCENTILES WILL GIVE YOU SOME IDEA OF WHERE YOU RANK. IF YOUR"/
00033650      3" PERCENTILE IS 80% YOUR INTEREST IS GREATER THAN 80% OF OTHERS."/
00033700      4 " IF IT IS 50% YOU ARE RIGHT IN THE MIDDLE. IF YOU ARE AT THE"/
00033750      5 " 25% LEVEL THEN 75% HAVE A GREATER INTEREST THAN YOU."/
00033800      6 " ONCE YOU HAVE STUDIED THE RESULTS,"/
00033850      7 " PRESS SPACE/BLANK AND TRANSMIT")
00033900 C
00033950       IF(LSCRN) CALL VGSCRN
00034000       IF (FINISH) GO TO 3570
00034050 C
00034100 C     ----     DETERMINE HOLLAND CODES FOR INTEREST RATINGS GIVEN
00034150 C
00034200       J1ST = 1
00034250       DO 1160 I = 1,6
00034300          CORREL(I) = COEFF(1,I)
00034350          DO 1150 J = 1,10
00034400             CORREL(I) = CORREL(I) + COEFF(J+1,I) * IPRATE(J)
00034450  1150     CONTINUE
00034500          CORREL(I) = (CORREL(I) - CMEAN(JSEX,I)) / STDEV(JSEX,I)
00034550  1160 CONTINUE
00034600       CALL MPLZE7(CORREL,NPOINT,6)
00034650       DO 1170 I = 1,7
00034700          J = 7 - I
00034750          TEMP = CORREL(I)
00034800          CORREL(I) = CORREL(J)
00034850          CORREL(J) = TEMP
00034900          NTEMP = NPOINT(I)
00034950          NPOINT(I) = NPOINT(J)
00035000          NPOINT(J) = NTEMP
00035050  1170 CONTINUE
00035100       DO 1190 I = 1,3
00035150          HCODE(I) = HCODE(NPOINT(I))
00035200  1190 CONTINUE
00035250       GO TO 1430
00035300 C
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00035350 C     ----    LOOP FOR WORK INTERESTS
00035400 C
00035450  1200 LHERUN = .TRUE.
00035500  1210 JIST = 3
00035550       DO 122C I = 1,3
00035600          WCODE(I) = BLANK
00035650  122C CONTINUE
00035700       WRITE(IP,1230)
00035750  123C FORMAT(" TYPE IN THE CODE FOR YOUR TWO HIGHEST WORK INTERESTS"/
00035800      * "    (TYPE IN A BLANK IF YOU WANT TO CHECK THE CODES AND SCORES)")
00035850       DO 131C I=1,2
00035900  1240   WRITE(IP,1250) I
00035950  1250   FORMAT(" CODE ",I1,".")
00036000       READ(IR,1260,DATA=1280,END=3570) RESP
00036050  1260   FORMAT(A2)
00036100       IF (RESP .IS. BLANK) GO TO 1280
00036150       DO 1270 J=1,10
00036200         IF(RESP.IS.CODE(J)) GO TO 1300
00036250  1270   CONTINUE
00036300  1280   WRITE(IP,1090) (ANAME(N),N=1,NMLEN)
00036350       WRITE(IP,1100) (DASH,N=1,NMLEN)
00036400       WRITE (IP,1110) DATE
00036450       DO 1290 K=1,10
00036500          NPM = NPERCM(IPRATE(K),K)
00036550          NPF = NPERCF(IPRATE(K),K)
00036600          NPB = NPERCB(IPRATE(K),K)
00036650          WRITE(IP,1120) CODE(K),EQUIV(K),IPRATE(K),NPM,NPF,NPB
00036700  1290   CONTINUE
00036750       GO TO 1240
00036800  1300   WCODE(I) = WCODE(JDCODE(J))
00036850  1310 CONTINUE
00036900 C
00036950 C     ----    CHECK HOLLAND CODE CONSISTENCY
00037000 C
00037050       ICODE = 2
00037100       IFURTH = 0
00037150  1320 IF(.NOT. WCODE(1) .IS. WCODE(2)) GO TO 1430
00037200       WCODE(2) = BLANK
00037250       GO TO 1340
00037300  1330 WCODE(3) = WCODE(JDCODE(J))
00037350       IF (.NOT. (WCODE(1) .IS. WCODE(3)) .AND.
00037400      1    .NOT. (WCODE(2) .IS. WCODE(3))) GO TO 1430
00037450       WCODE(3)=BLANK
00037500  1340 WRITE(IP,1350)
00037550  1350 FORMAT(" WITH THE WORK INTEREST CODES YOU HAVE ENTERED A LARGE"/
00037600      1 " NUMBER OF OCCUPATIONS WILL BE DISPLAYED. PLEASE ENTER A"/
00037650      2 " FURTHER CODE TO ENABLE A MORE ACCURATE LIST")
00037700  1360 WRITE (IP,1370)
00037750  1370 FORMAT ("    #TYPE IN A BLANK IF YOU WANT TO CHECK THE CODES",
00037800      1 " AND SCORES")
00037850       ICODE = ICODE + 1
00037900       IF(ICODE.GT.9) GO TO 3530
00037950  1380 WRITE(IP,1250) ICODE
00038000       READ(IR,1260,DATA=1400,END=357C) RESP
00038050       IF (RESP .IS. BLANK) GO TO 1400
00038100       DO 1390 J=1,10
00038150         IF(RESP.IS.CODE(J)) GO TO 1420
00038200  1390 CONTINUE
00038250  1400 WRITE(IP,1090) (ANAME(I),I=1,NMLEN)
00038300       WRITE(IP,1100) (DASH,I=1,NMLEN)
00038350       WRITE (IP,1110) DATE
00038400       DO 1410 I=1,10
00038450          NPM = NPERCM(IPRATE(I),I)
00038500          NPF = NPERCF(IPRATE(I),I)
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00038550           NPB = NPERCB(IPRATE(I),I)
00038600           WRITE(IP,1120) CODE(I),EQUIV(I),IPRATE(I),NPH,NPF,NPB
00038650  1410 CONTINUE
00038700           GO TO 1380
00038750  1420 IF (IFURTH .EQ. 1) GO TO 1330
00038800           WCODE(2) = HCODE(JDCODE(J))
00038850           GO TO 1320
00038900 C
00038950 C     ----    PRODUCE OCCUPATION LIST
00039000 C
00039050  1430 NREC=0
00039100           WRITE (IP,1440) WCODE
00039150  1440 FORMAT(10X,2(A1,","),A1)
00039200           REWIND IN
00039250  1450 READ(IN,1460,END=1510)FCODE,EDCODE,RECORD
00039300  1460 FORMAT(3A1,5I1,10A6)
00039350           DO 1470 I=1,3
00039400             IF(WCODE(I).IS.BLANK) GO TO 1470
00039450             IF(.NOT.WCODE(I).IS.FCODE(I)) GO TO 1450
00039500  1470 CONTINUE
00039550           IF (J1ST .EQ. 1 .OR. J1ST .EQ. 3) GO TO 1490
00039600           DO 1480 I = 1,5
00039650             IF (JEDLEV .EQ. EDCODE(I)) GO TO 1490
00039700  1480 CONTINUE
00039750           GO TO 1450
00039800  1490 NREC=NREC+1
00039850           DO 1500 I=1,10
00039900             STORE(I,NREC) = RECORD(I)
00039950  1500 CONTINUE
00040000           GO TO 1450
00040050  1510 IF (.NOT. (NREC .LT. 5 .AND. J1ST .EQ. 1 .AND.
00040100          .    .NOT. (WCODE(3) .IS. BLANK))) GO TO 1520
00040150           WCODE(3) = BLANK
00040200           GO TO 1430
00040250  1520 IF(NREC.EQ.0) GO TO 1610
00040300           IF (NREC .GT. 22 .AND. J1ST .EQ. 1) GO TO 1630
00040350           IF (NREC .GT. 22 .AND. J1ST .EQ. 3) GO TO 1650
00040400           IF (LSCRN) CALL CLSCRN
00040450           IF (J1ST .EQ. 1 .OR. J1ST .EQ. 3) WRITE(IP,1530)
00040500  1530 FORMAT(/" OCCUPATIONS WHICH MATCH YOUR WORK INTERESTS"/
00040550          1 1X,43("-"))
00040600           IF (J1ST .EQ. 2 .OR. J1ST .EQ. 4) WRITE(IP,1540)
00040650  1540 FORMAT(/" OCCUPATIONS WHICH MATCH YOUR WORK INTERESTS AND EDUCA",
00040700          1 "TION LEVEL"/1X,63("-"))
00040750           DO 1560 I=1,NREC
00040800             WRITE(IP,1550)(STORE(J,I),J=1,10)
00040850  1550     FORMAT(2X,10A6)
00040900             IF (I .NE. 20 .AND. I .NE. 42 .AND. I .NE. 64 .AND.
00040950          .       I .NE. 86 .AND. I .NE. NREC) GO TO 1560
00041000             IF (LSCRN) CALL VGSCRN
00041050             IF (FINISH) GO TO 3570
00041100  1560 CONTINUE
00041150           GO TO (1630,1780,1650,1570),J1ST
00041200 C
00041250 C     ----    REDUCE NO. OF JOBS BY ENTERING FURTHER WORK INTEREST
00041300 C     ----    CODE
00041350 C
00041400  1570 IF (.NOT. WCODE(3) .IS. BLANK) GO TO 1780
00041450           IFURTH = 1
00041500           WRITE (IP,1580)
00041550  1580 FORMAT (" IF A LARGE NUMBER OF OCCUPATIONS HAVE BEEN DISPLAYED,",
00041600          1 " YOU MAY LIKE TO ENTER"/" A THIRD, DIFFERENT WORK INTEREST",
00041650          2 " CODE TO ENABLE A MORE SPECIFIC LIST"/" OF OCCUPATIONS TO",
00041700          3 " BE PRODUCED.  DO YOU WISH TO DO THIS?")
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00041750  1590 READ (IR,130,END=3570,DATA=1600) RESP
00041800       IF (RESP .IS. YES) GO TO 1360
00041850       IF (RESP .IS. NO) GO TO 1780
00041900  1600 WRITE (IP,630)
00041950       GO TO 1590
00042000 C
00042050 C     ----     NO OCCUPATIONS FOUND ON FILE
00042100 C
00042150  1610 WRITE(IP,1620)
00042200  1620 FORMAT(" UNFORTUNATELY AT PRESENT WE DO NOT HAVE ANY JOBS ON"/
00042250      1 " FILE WHICH MATCH YOUR CURRENT WORK INTERESTS AND EDUCATIONAL"/
00042300      2 " LEVEL. THIS IS ONLY BECAUSE THE INFORMATION IS NOT YET FULLY"/
00042350      3 " BUILT UP.")
00042400       IF (JIST .NE. 1) GO TO 1780
00042450       NOJOB = 1
00042500       IF (LSCRN) CALL VGSCRN
00042550 C
00042600 C     ----     LOOP FOR EDUCATION - 1ST TIME
00042650 C
00042700  1630 IF(LSCRN) CALL CLSCRN
00042750       IF (FINISH) GO TO 3570
00042800       JIST = 2
00042850       WRITE(IP,1640)
00042900  1640 FORMAT(//"0EDUCATION"/1X,9("-")//
00042950      2 " IT IS WORTH LOOKING AT YOUR EDUCATIONAL PLANS.  THE AMOUNT "/
00043000      3 " OF EDUCATION YOU HAVE WILL INFLUENCE THE NUMBER OF",
00043050      4 " OCCUPATIONS "/" OPEN TO YOU."//
00043100      5 " THE EDUCATION LEVELS STORED IN OUR FILES ARE :"/
00043150      6 10X,"A - DEGREE"/10X,"B - DIPLOMA"/10X,"C - CERTIFICATE"/
00043200      7 10X,"D - TRADE"/10X,"E - GENERAL EDUCATION OR OTHER TRAINING"/
00043250      8 " IF YOU ARE STILL AT SCHOOL YOU SHOULD PICK THE LEVEL YOU ARE",
00043300      9 " AIMING FOR."/)
00043350       GO TO 1710
00043400 C
00043450 C     ----     FOLLOWING TIMES
00043500 C
00043550  1650 JIST = 4
00043600       IF(SHOCC .IS. YES)GO TO 1660
00043650       IF(.NOT.LRERUN) GO TO 1630
00043700  1660 WRITE(IP,1670)
00043750  1670 FORMAT(" DO YOU WISH TO ALTER YOUR EDUCATIONAL LEVEL ?")
00043800  1680 READ(IR,130,END=3570,DATA=1690) RESP
00043850       IF(RESP.IS.YES) GO TO 1710
00043900       IF(RESP.IS.NO ) GO TO 1430
00043950  1690 WRITE(IP,630)
00044000       GO TO 1680
00044050  1700 LRERUN = .TRUE.
00044100 C
00044150  1710 WRITE(IP,1720)
00044200  1720 FORMAT(" ENTER YOUR SELECTED EDUCATIONAL LEVEL"/
00044250     * 5X,"(ENTER A BLANK TO CHECK THE CODES)")
00044300       READ(IR,130,END=3570,DATA=1740) EDLEV
00044350       DO 1730 I=1,5
00044400         IF(EDLEV.IS.ECODE(I)) GO TO 1760
00044450  1730 CONTINUE
00044500  1740 WRITE(IP,1750)
00044550  1750 FORMAT(" THE EDUCATION LEVELS STORED IN OUR FILES ARE :"/
00044600      1 10X,"A - DEGREE"/10X,"B - DIPLOMA"/10X,"C - CERTIFICATE"/
00044650      2 10X,"D - TRADE"/10X,"E - OTHER"/)
00044700       GO TO 1710
00044750  1760 JEDLEV=I
00044800       IF (NOJOB .EQ. 1) GO TO 1770
00044850       GO TO 1430
00044900  1770 NOJOB = 0
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00044950 C
00045000 C     ----     CHOICE OF RE-ENTERING WORK INTEREST CODES AND
00045050 C     ----     EDUCATIONAL LEVEL
00045100 C
00045150  1780 WRITE(IP,1790)
00045200  1790 FORMAT(" YOU MAY LIKE TO ALTER YOUR HIGH WORK INTEREST CODES",
00045250      1 " OR YOUR"/" EDUCATIONAL LEVEL FOR A FURTHER OCCUPATION",
00045300      2 " SEARCH."/" DO YOU WISH TO DO THIS?")
00045330  1800 READ (IR,130,END=3570) SHOCC
00045400       IF (SHOCC .IS. YES) GO TO 1210
00045450       IF (SHOCC .IS. NO) GO TO 1810
00045500       WRITE (IP,360)
00045550       GO TO 1800
00045600 C
00045650 C     ----     WORK VALUES
00045700 C
00045750  1810 IF (.NOT. LRERUN) GO TO 1860
00045800       WRITE (IP,1820)
00045850  1820 FORMAT (" DO YOU WISH TO ALTER YOUR WORK VALUE RATINGS?")
00045900  1830 READ (IR,1840,END=3570,DATA=1850) RESP
00045950  1840 FORMAT (A1)
00046000       IF (RESP .IS. YES) GO TO 1890
00046050       IF (RESP .IS. NO) GO TO 2250
00046100  1850 WRITE (IP,630)
00046150       GO TO 1830
00046200 C
00046250  1860 IF (LSCRN) CALL CLSCRN
00046300       WRITE (IP,1870)
00046350  1870 FORMAT ("0WORK VALUES - THINGS THAT ARE IMPORTANT TO YOU"/
00046400      1 " ",46("-")//" THE NEXT PART OF THE PROGRAM WILL HELP YOU",
00046450      2 " THINK ABOUT THE TYPE"/" OF WORK YOU MIGHT LIKE."//
00046500      3 " YOU WILL BE ASKED A SERIES OF QUESTIONS",
00046550      4 " ABOUT YOURSELF,"/" AND ABOUT FIVE OCCUPATIONS THAT YOU",
00046600      5 " WILL CHOOSE."/" YOU WILL BE ASKED TO THINK ABOUT WHAT YOU",
00046650      6 " WANT FROM YOUR WORK"/" AND WE HOPE THAT THIS WILL SHOW YOU",
00046700      7 " ANOTHER WAY TO THINK"/" ABOUT JOBS."/)
00046750 C
00046800 C     ----     DETERMINE PERSONAL WORK VALUES
00046850 C
00046900       WRITE (IP,1880)
00046950  1880 FORMAT (" IN THE FIRST PART OF OUR EXERCISE WE WILL CONSIDER",
00047000      1 " THOSE THINGS"/" THAT ARE IMPORTANT TO YOU.  WE CALL THEM",
00047050      2 " WORK VALUES."//" YOU WILL BE ASKED TO RATE THE IMPORTANCE",
00047100      3 " OF THIRTEEN VALUES."/" THESE ARE THE KINDS OF SATISFACTIONS",
00047150      4 " YOU WOULD WANT FROM"/" A JOB.  ANSWER EACH QUESTION ON",
00047200      5 " A SCALE FROM 1 TO 5 "/" WHERE 1 MEANS 'QUITE UNIMPORTANT'",
00047250      6 " AND 5 MEANS 'VERY IMPORTANT'.")
00047300       IF (LSCRN) CALL VGSCRN
00047350       IF (FINISH) GO TO 3570
00047400       GO TO 1920
00047450  1890 LRERUN = .TRUE.
00047500       DO 1900 I = 1,5
00047550          JCNT(I) = I
00047600  1900 CONTINUE
00047650       WRITE (IP,1910)
00047700  1910 FORMAT (" FOR EACH WORK VALUE LISTED TYPE IN A VALUE FROM",
00047750      1 " 1 TO 5 WHERE"/" 1 MEANS 'QUITE UNIMPORTANT' AND 5 MEANS",
00047800      2 " 'VERY IMPORTANT'."/
00047850      3 " PRESS THE TRANSMIT KEY AFTER EACH RATING.")
00047900  1920 DO 2240 I = 1,13
00047950  1930    GO TO (1940,1960,1980,2000,2020,2040,2060,2080,
00048000      1   2100,2120,2140,2160,2180),I
00048050  1940    WRITE (IP,1950)
00048100  1950    FORMAT ("01.  HOW",
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00048150       2    " IMPORTANT IS IT FOR YOU TO DO WORK WHICH BENEFITS OTHERS?")
00048200            GO TO 2200
00048250  1960    WRITE (IP,1970)
00048300  1970    FORMAT ("02. HOW IMPORTANT",
00048350       1    " IS IT FOR YOU TO DO WORK IN WHICH YOU CAN"/" CREATE",
00048400       2    " SOMETHING NEW?")
00048450            GO TO 2200
00048500  1980    WRITE (IP,1990)
00048550  1990    FORMAT ("03. HOW IMPORTANT",
00048600       1    " IS IT FOR YOU TO WORK AS FAST OR AS SLOW AS"/" YOU WANT?")
00048650            GO TO 2200
00048700  2000    WRITE (IP,2010)
00048750  2010    FORMAT ("04. ",
00048800       1    " HOW IMPORTANT IS IT FOR YOU TO DO WORK IN WHICH YOU CAN",
00048850       2    " LEARN"/" MORE ABOUT HOW AND WHY THINGS WORK?")
00048900            GO TO 2200
00048950  2020    WRITE (IP,2030)
00049000  2030    FORMAT ("05. HOW IMPORTANT",
00049050       1    " IS IT FOR YOU TO DO WORK THAT GIVES YOU A FEELING"/
00049100       2    " OF HAVING DONE A JOB WELL?")
00049150            GO TO 2200
00049200  2040    WRITE (IP,2050)
00049250  2050    FORMAT ("06. HOW IMPORTANT",
00049300       1    " IS IT FOR YOU TO DO WORK WHICH YOU CAN PLAN "/" AND",
00049350       2    " LAY OUT FOR OTHERS TO DO?")
00049400            GO TO 2200
00049450  2060    WRITE (IP,2070)
00049500  2070    FORMAT ("07. HOW IMPORTANT",
00049550       1    " IS IT FOR YOU TO DO WORK IN WHICH YOU ARE SURE OF"/
00049600       2    " HAVING A JOB EVEN IN HARD TIMES?")
00049650            GO TO 2200
00049700  2080    WRITE (IP,2090)
00049750  2090    FORMAT ("08. HOW IMPORTANT",
00049800       1    " IS IT FOR YOU TO DO WORK IN WHICH PEOPLE LOOK UP"/
00049850       2    " TO YOU?")
00049900            GO TO 2200
00049950  2100    WRITE (IP,2110)
00050000  2110    FORMAT ("09. HOW IMPORTANT IS",
00050050       1    " IT FOR YOU TO DO WORK IN WHICH YOU GET A GOOD SALARY?")
00050100            GO TO 2200
00050150  2120    WRITE (IP,2130)
00050200  2130    FORMAT ("010. HOW IMPORT",
00050250       1    "ANT IS IT FOR YOU TO WORK IN PLEASANT SURROUNDINGS?")
00050300            GO TO 2200
00050350  2140    WRITE (IP,2150)
00050400  2150    FORMAT ("011. HOW"
00050450       1    " IMPORTANT IS IT FOR YOU TO HAVE WORK IN WHICH YOUR",
00050500       2    " FELLOW"/" WORKERS ARE THE KIND OF PEOPLE YOU LIKE?")
00050550            GO TO 2200
00050600  2160    WRITE (IP,2170)
00050650  2170    FORMAT ("012. HOW",
00050700       1    " IMPORTANT IS IT FOR YOU TO HAVE WORK IN WHICH YOUR",
00050750       2    " SUPERVISOR"/" IS FAIR AND SQUARE?")
00050800            GO TO 2200
00050850  2180    WRITE (IP,2190)
00050900  2190    FORMAT ("013. HOW IMPORTANT",
00050950       1    " IS IT FOR YOU TO HAVE WORK WHERE YOU DO MANY DIFFERENT"/
00051000       2    " THINGS ON THE JOB?")
00051050  2200    READ (IR,2210,END=3570,DATA=2220) INKVAL(1,I)
00051100  2210    FORMAT (I1)
00051150            IF (INKVAL(1,I) .GE. 1 .AND. INKVAL(1,I) .LE. 5) GO TO 2240
00051200  2220    WRITE (IP,2230)
00051250  2230    FORMAT (" PLEASE ENTER A NUMBER BETWEEN 1 AND 5 IN RESPONSE",
00051300       1    " TO THE QUES[illegible]")
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00051350           GO TO 1930
00051400   2240 CONTINUE
00051450        IF (.NOT. LRERUN) GO TO 2300
00051500   2250 IF (RESP .IS. NO) NEGRES = 1
00051550        WRITE (IP,2260)
00051600   2260 FORMAT (" DO YOU WISH TO ALTER YOUR CHOICE OF OCCUPATIONS?")
00051650   2270 READ (IR,2280,END=3570,DATA=2290) RESP
00051700   2280 FORMAT (A1)
00051750        IF (RESP .IS. YES) GO TO 2330
00051800        IF (RESP .IS. NO .AND. NEGRES .EQ. 1)  GO TO 2930
00051850        IF (RESP .IS. NO) GO TO 2710
00051900   2290 WRITE (IP,630)
00051950        GO TO 2270
00052000 C
00052050 C     ----     DETERMINE CHOICE OF OCCUPATIONS
00052100 C
00052150   2300 IF (LSCRN) CALL CLSCRN
00052200        WRITE (IP,2310)
00052250   2310 FORMAT (" NOW IT IS TIME TO LIST THE NAMES OF 5 OCCUPATIONS",
00052300       1 " WHICH YOU THINK"/" YOU MIGHT LIKE.  USE THE LIST OF THOSE",
00052350       2 " WHICH INTEREST YOU AS A GUIDE."//" # AFTER YOU TYPE IN THE",
00052400       3 " NAME OF EACH OCCUPATION PRESS THE"/" TRANSMIT KEY.")
00052450        GO TO 2330
00052500   2320 LRERUN = .TRUE.
00052550   2330 DO 2360 I = 1,5
00052600           WRITE (IP,2340) I
00052650   2340    FORMAT (" ENTER OCCUPATION ",I1)
00052700           READ (IR,2350,END=3570) (OCC(I,J),J = 1,30)
00052750   2350    FORMAT (30A1)
00052800   2360 CONTINUE
00052850 C
00052900 C     ----     DETERMINE WORK VALUES ASSOCIATED WITH CHOSEN OCCUPATIONS
00052950 C
00053000        IF (LSCRN) CALL CLSCRN
00053050        WRITE (IP,2370)
00053100   2370 FORMAT (" NOW WE WOULD LIKE YOU TO CONSIDER SOME ASPECTS OF",
00053150       1 " THESE 5 OCCUPATIONS."/" YOU WILL BE ASKED TO RATE EACH",
00053200       2 " OCCUPATION ON THE WORK VALUES."/" WE UNDERSTAND THAT YOU",
00053250       3 " MAY NOT BE SURE ABOUT SOME ASPECTS OF THE JOBS."/" BUT MAKE",
00053300       4 " YOUR RATINGS AS ACCURATE AS POSSIBLE."//" RATE EACH OF THE",
00053350       5 " FIVE OCCUPATIONS IN TERMS OF THE JOB'S ABILITY TO"/" PROVIDE",
00053400       6 " YOU WITH THIS.  USE A SCALE FROM 1 TO 5 WHERE 1 IS THE"/
00053450       7 " LOWEST RATING AND 5 IS THE HIGHEST RATING.  PRESS THE",
00053500       8 " TRANSMIT KEY"/" AFTER EACH RATING."///)
00053550        DO 2700 J = 1,13
00053600           GO TO (2380,2400,2420,2440,2460,2480,2500,2520,2540,
00053650       1   2560,2580,2600,2620),J
00053700   2380    WRITE (IP,2390)
00053750   2390    FORMAT ("  <<WORK WHICH BENEFITS OTHERS>>"//)
00053800           GO TO 2640
00053850   2400    WRITE (IP,2410)
00053900   2410    FORMAT ("  <<WORK IN WHICH YOU CAN CREATE SOMETHING NEW>>"//)
00053950           GO TO 2640
00054000   2420    WRITE (IP,2430)
00054050   2430    FORMAT ("  <<WORK YOU CAN DO AS FAST OR AS SLOW AS YOU WANT>>"
00054100       1    //)
00054150           GO TO 2640
00054200   2440    WRITE (IP,2450)
00054250   2450    FORMAT ("  <<WORK IN WHICH YOU CAN LEARN MORE ABOUT HOW",
00054300       1    " AND WHY THINGS WORK>>"//)
00054350           GO TO 2640
00054400   2460    WRITE (IP,2470)
00054450   2470    FORMAT ("  <<WORK THAT GIVES YOU A FEELING OF HAVING DONE",
00054500       1    " A JOB WELL>>"//)
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00054550            GO TO 2640
00054600  2480    WRITE (IP,2490)
00054650  2490    FORMAT ("  <<WORK WHICH YOU CAN PLAN AND LAY OUT FOR OTHERS",
00054700       1     " TO DO>>"//)
00054750            GO TO 2640
00054800  2500    WRITE (IP,2510)
00054850  2510    FORMAT ("  <<WORK IN WHICH YOU ARE SURE OF HAVING A JOB",
00054900       1     " EVEN IN HARD TIMES>>"//)
00054950            GO TO 2640
00055000  2520    WRITE (IP,2530)
00055050  2530    FORMAT ("  <<WORK IN WHICH PEOPLE LOOK UP TO YOU>>"//)
00055100            GO TO 2640
00055150  2540    WRITE (IP,2550)
00055200  2550    FORMAT ("  <<WORK IN WHICH YOU GET A GOOD SALARY>>"//)
00055250            GO TO 2640
00055300  2560    WRITE (IP,2570)
00055350  2570    FORMAT ("  <<WORK IN PLEASANT SURROUNDINGS>>"//)
00055400            GO TO 2640
00055450  2580    WRITE (IP,2590)
00055500  2590    FORMAT ("  <<WORK IN WHICH YOUR FELLOW WORKERS ARE THE KIND",
00055550       1     " OF PEOPLE YOU LIKE>>"//)
00055600            GO TO 2640
00055650  2600    WRITE (IP,2610)
00055700  2610    FORMAT ("  <<WORK IN WHICH YOUR SUPERVISOR IS FAIR AND",
00055750       1     " SQUARE>>"//)
00055800            GO TO 2640
00055850  2620    WRITE (IP,2630)
00055900  2630    FORMAT ("  <<WORK WHERE YOU DO MANY DIFFERENT THINGS ON THE",
00055950       1     " JOB>>"//)
00056000  2640    DO 2690 I = 2,6
00056050  2650       WRITE (IP,2660) (OCC(I-1,K),K = 1,30)
00056100  2660       FORMAT (" ",30A1)
00056150             READ (IR,2670,END=3570,DATA=2680) IWKVAL(I,J)
00056200  2670       FORMAT (I1)
00056250             IF (IWKVAL(I,J) .GE. 1 .AND. IWKVAL(I,J) .LE. 5)
00056300       1          GO TO 2690
00056350  2680       WRITE (IP,2230)
00056400             GO TO 2650
00056450  2690    CONTINUE
00056500  2700 CONTINUE
00056550  2710 WRITE (IP,2720)
00056600  2720 FORMAT (" NOW FOR SOME RESULTS"//)
00056650 C
00056700 C     ----    WRITE OUT VALUE RATINGS
00056750 C
00056800        IF (LSCRN) CALL CLSCRN
00056850        WRITE (IP,2730)
00056900  2730 FORMAT (6X,"VALUE RATINGS OF OCCUPATIONS AND OF SELF"/
00056950       1 6X,40("-"))
00057000        WRITE (IP,2740) (((CCC(I,J),J = 1,8),I = 1,5),
00057050       1                ((CCC(I,J),J = 9,16),I = 1,5),
00057100       2                ((CCC(I,J),J = 17,24),I = 1,5)
00057150  2740 FORMAT (1X,"VALUE",10X,"SELF",5(2X,8A1),2X,"OTHER"/
00057200       1 20X,5(2X,8A1),2X,"STUDENTS"/20X,5(2X,8A1))
00057250        WRITE (IP,2750) (WKVALU(I),(IWKVAL(J,I),J = 1,6),STWKVA(I),
00057300       1     I = 1,13)
00057350  2750 FORMAT ((" ",A12,5X,I1,6X,4(I1,9X),I1,7X,F4.2))
00057400        WRITE (IP,2760)
00057450  2760 FORMAT ("0","THESE ARE THE ACTUAL RATINGS THAT YOU GAVE FOR",
00057500       1 " YOURSELF AND FOR"/" THE 5 OCCUPATIONS.  WE HAVE ALSO",
00057550       2 " INCLUDED THE RATINGS OF"/" YEAR 12/UNIVERSITY STUDENTS.")
00057600 C
00057650 C     ----    DIFFERENCES BETWEEN WORK VALUES FOR SELF AND CHOSEN
00057700 C     ----    OCCUPATIONS
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00057750 C
00057800       IF (LSCRN) CALL VGSCRN
00057850       IF (FINISH) GO TO 3570
00057900       WRITE (IP,2770)
00057950  2770 FORMAT (" YOU CAN NOW EXAMINE ANY DIFFERENCES BETWEEN YOUR",
00058000      1 " RATINGS AND THE"/" JOB RATINGS.  DIFFERENCES MEAN",
00058050      2 " TWO THINGS:-"/"      1)  THAT THE JOB DOES NOT OFFER WHAT",
00058100      3 " YOU WANT"/"      2)  YOU MAY NOT VALUE SOME OTHER",
00058150      4 " ASPECTS OF A JOB."/"CTC HELP YOU CONSIDER THESE",
00058200      5 " DIFFERENCES WE HAVE CALCULATED"/" AN OVERALL MEASURE OF",
00058250      6 " THE DIFFERENCES.")
00058300       DO 2790 I = 1,5
00058350          DIFVAL(I) = 0.0
00058400          DO 2780 J = 1,13
00058450             DIFVAL(I) = DIFVAL(I) + (IWKVAL(I,J) - IWKVAL(I+1,J)) ** 2
00058500  2780     CONTINUE
00058550          DIFVAL(I) = SQRT (DIFVAL(I))
00058600  2790 CONTINUE
00058650       WRITE (IP,2800) ((OCC(I,J),J = 1,20),DIFVAL(I),I = 1,5)
00058700  2800 FORMAT ("0DIFFERENCES BETWEEN SELF-RATINGS AND OCCUPATIONS"/
00058750      1 1X,48("-")//(5X,20A1,10X,F7.2))
00058800       WRITE (IP,2810)
00058850  2810 FORMAT ("0THE VALUES IN THE TABLE ARE DIFFERENCE MEASURES. ",
00058900      1 " THEY SHOW HOW MUCH"/" DISAGREEMENT THERE WAS BETWEEN THE",
00058950      2 " WORK VALUE RATINGS YOU GAVE YOURSELF"/" AND THOSE THAT",
00059000      3 " YOU GAVE TO EACH JOB.  HIGH VALUES REPRESENT A GREAT"/
00059050      4 " DEGREE OF DIFFERENCE.  YOU SHOULD PROBABLY FOCUS ON",
00059100      5 " THE LOWEST VALUES.",
00059150       IF (LRERUN .AND. RESP .IS. NO) GO TO 2930
00059200       IF (LRERUN) GO TO 2870
00059250 C
00059300 C     ----     SUMMARY OF RESULTS SO FAR
00059350 C
00059400       DO 2820 I = 1,13
00059450          KWKVAL(I) = IWKVAL(1,I)
00059500          KCNT(I) = I
00059550  2820 CONTINUE
00059600       CALL MPLZE7 (KWKVAL,KCNT,13)
00059650       DO 2830 K = 1,6
00059700          L = 14 - K
00059750          KCNTI = KCNT(K)
00059800          KWKVI = KWKVAL(K)
00059850          KCNT(K) = KCNT(L)
00059900          KWKVAL(K) = KWKVAL(L)
00059950          KCNT(L) = KCNTI
00060000          KWKVAL(L) = KWKVI
00060050  2830 CONTINUE
00060100       DO 2840 I = 1,10
00060150          JPRATE(I) = IPRATE(I)
00060200  2840 CONTINUE
00060250       CALL MPLZE7 (JPRATE,NPRT,10)
00060300       DO 2850 I = 1,5
00060350          J = 11 - I
00060400          NTEMP = NPRT(I)
00060450          NPRT(I) = NPRT(J)
00060500          NPRT(J) = NTEMP
00060550  2850 CONTINUE
00060600       IF (LSCRN) CALL VGSCRN
00060650       IF (FINISH) GO TO 3570
00060700       WRITE (IP,2860) (EQUIV(NPRT(I)),I = 1,3),EDUCN(JEDLEV),
00060750      1                (WKVALU(KCNT(L)),L = 1,3)
00060800  2860 FORMAT ("0NOW YOU KNOW YOUR HIGHEST INTERESTS"//10X,3(A12,3X)//
00060850      1 " YOU HAVE ESTIMATED THE LEVEL OF EDUCATION YOU WANT TO"/
00060900      2 " ACHIEVE"//10X,A12//
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00060950       3 " AND YOU HAVE DETERMINED YOUR HIGHEST WORK VALUES"//
00061000       4 10X,3(A12,3X))
00061050 C
00061100 C     ----    PERFORM OCCUPATIONAL CHOICES PAIR COMPARISONS
00061150 C
00061200        IF (LSCRN) CALL VGSCRN
00061250        IF (FINISH) GO TO 3570
00061300  2870 WRITE (IP,2880)
00061350  2880 FORMAT ("0THE LAST PART OF THE PROGRAM WILL HELP YOU CHOOSE FROM"
00061400      1 " THESE FIVE JOBS."/" WE WILL SHOW YOU SEVERAL PAIRS OF THE",
00061450      2 " OCCUPATIONS YOU LISTED.  YOU WILL"/" BE ASKED TO CHOOSE",
00061500      3 " WHICH OF THE TWO OCCUPATIONS YOU PREFER MOST."/" IN SOME",
00061550      4 " CASES THE CHOICE WILL BE DIFFICULT."//"      WOULD YOU RATHER",
00061600      5 " BE 1. ............. OR 2. ............."//" TO SHOW YOUR",
00061650      6 " CHOICE, TYPE IN THE NUMBER NEXT TO THE OCCUPATION YOU"/
00061700      7 " LIKE MOST.  AFTER TYPING 1 OR 2, PRESS THE TRANSMIT KEY ON",
00061750      8 " THE TERMINAL")
00061800 C
00061850 C     ----    RANK PAIR COMPARISONS AND DETERMINE LEVEL OF CONSISTENCY
00061900 C     ----    OF RESPONSES
00061950 C
00062000        CALL RANK (CONS2)
00062050 C
00062100 C     ----    SORT OCCUPATION SCORES
00062150 C
00062200        CALL WPLZE7 (JSEL,JCNT,5)
00062250 C
00062300 C     ----    REARRANGE INTO DESCENDING ORDER
00062350 C
00062400        DO 2890 J = 1,2
00062450           K = 6 - J
00062500           JSELI = JSEL(J)
00062550           JSEL(J) = JSEL(K)
00062600           JSEL(K) = JSELI
00062650           JCNTI = JCNT(J)
00062700           JCNT(J) = JCNT(K)
00062750           JCNT(K) = JCNTI
00062800  2890 CONTINUE
00062850 C
00062900 C     ----    WRITE OUT TABLE OF RESULTS
00062950 C
00063000        IF (LSCRN) CALL CLSCRN
00063050        WRITE (IP,2900)
00063100  2900 FORMAT (" WE CAN NOW LIST THESE OCCUPATIONS IN THE ORDER THAT",
00063150      1 " YOU PREFERRED."/" YOUR HIGHEST PREFERENCES ARE AT THE TOP.",
00063200      2 "  THESE ARE THE ONES YOU"/" SELECTED MOST OFTEN."//20X,
00063250      3 "OCCUPATION",10X,"NO. OF TIMES"/42X,"SELECTED"/)
00063300        WRITE (IP,2910) ((OCC(JCNT(I),J),J = 1,20),JSEL(I),I = 1,5)
00063350  2910 FORMAT (20X,20A1,5X,I1)
00063400        JLEV2 = CONS2 * 5.0 + 1
00063450        IF (JLEV2 .GT. 5) JLEV2 = 5
00063500        WRITE (IP,2920) LEVEL(JLEV2)
00063550  2920 FORMAT ("0","OVERALL YOUR RESPONSES SHOWED A LEVEL OF",
00063600      1 " CONSISTENCY WHICH WAS"/" ",A12)
00063650  2930 WRITE(IP,2940)
00063700  2940 FORMAT("0YOU MAY NOW EITHER FINISH THIS RUN OF CSSIE JOB OR"/
00063750      1 " DO A FURTHER OCCUPATION SEARCH BY ALTERING YOUR HIGH WORK "/
00063800      2 " INTEREST CODES, YOUR WORK VALUES OR YOUR OCCUPATIONAL CHOICES."
00063850      3/" DO YOU WISH TO FINISH ?")
00063900  2950 READ(IR,130,END=3570,DATA=2960) RESP
00063950        IF(RESP.IS.YES) GO TO 3130
00064000        IF(RESP.IS.NO ) GO TO 2970
00064050  2960 WRITE(IP,630)
00064100        GO TO 2950
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00064150 C
00064200   2970 WRITE(IP,2980)
00064250   2980 FORMAT(" DO YOU WISH TO ALTER YOUR HIGH WORK INTEREST CODES ?")
00064300        READ(IR,130,END=3570,DATA=2990) RESP
00064350        IF(RESP.IS.YES) GO TO 1200
00064400        IF(RESP.IS.NO ) GO TO 3000
00064450   2990 WRITE(IP,630)
00064500        GO TO 2970
00064550 C
00064600   3000 WRITE(IP,1670)
00064650   3010 READ(IR,130,END=3570,DATA=3020) RESP
00064700        IF(RESP.IS.YES) GO TO 1700
00064750        IF(RESP.IS.NO ) GO TO 3030
00064800   3020 WRITE(IP,630)
00064850        GO TO 3010
00064900 C
00064950   3030 WRITE (IP,3040)
00065000   3040 FORMAT (" DO YOU WISH TO ALTER YOUR WORK VALUE RATINGS?")
00065050   3050 READ (IR,3060,END=3570,DATA=3070) RESP
00065100   3060 FORMAT (A1)
00065150        IF (RESP .IS. YES) GO TO 1890
00065200        IF (RESP .IS. NO) GO TO 3080
00065250   3070 WRITE (IP,630)
00065300        GO TO 3050
00065350 C
00065400   3080 WRITE (IP,3090)
00065450   3090 FORMAT (" DO YOU WISH TO ALTER YOUR CHOICE OF OCCUPATIONS?")
00065500   3100 READ (IR,3110,END=3570,DATA=3120) RESP
00065550   3110 FORMAT (A1)
00065600        IF (RESP .IS. YES) GO TO 2320
00065650        IF (RESP .IS. NO) GO TO 3130
00065700   3120 WRITE (IP,630)
00065750        GO TO 3100
00065800 C
00065850 C     ----    EVALUATION
00065900 C
00065950   3130 IF (LSCRN) CALL CLSCRN
00066000        WRITE(IP,3140)
00066050   3140 FORMAT(" EVALUATION"/1X,10("-")//
00066100       1 " BEFORE YOU GO WE'D JUST LIKE TO ASK SOME QUESTIONS TO ENABLE"/
00066150       2 " OSSIE JOB TO BE IMPROVED FOR FUTURE PEOPLE WHO RUN THIS "/
00066200       3 " PROGRAM. JUST ANSWER YES OR NO TO THESE QUESTIONS"//
00066250       4 " WAS THE NUMBER OF JOBS DESCRIBED GOOD ?")
00066300        CALL VGREAD(JANSW,1)
00066350        IF (FINISH) GO TO 3570
00066400        WRITE(IP,3150)
00066450   3150 FORMAT(" WERE THE FACILITIES FOR INDIVIDUAL USE GOOD ?")
00066500        CALL VGREAD(JANSW,2)
00066550        IF (FINISH) GO TO 3570
00066600        WRITE(IP,3160)
00066650   3160 FORMAT(" HAVE YOUR CAREER AMBITIONS CHANGED ?")
00066700        CALL VGREAD(JANSW,3)
00066750        IF (FINISH) GO TO 3570
00066800        WRITE(IP,3170)
00066850   3170 FORMAT(" IS CAREER GUIDANCE MORE INTERESTING WITH THE USE OF"
00066900       * " COMPUTERS ?")
00066950        CALL VGREAD(JANSW,4)
00067000        IF (FINISH) GO TO 3570
00067050        WRITE(IP,3180)
00067100   3180 FORMAT(" CAN COMPUTERS HELP WITH CAREER GUIDANCE ?")
00067150        CALL VGREAD(JANSW,5)
00067200        IF (FINISH) GO TO 3570
00067250        WRITE(IP,3190)
00067300   3190 FORMAT(" DID THE COMPUTER HELP TO BUILD A PICTURE OF YOURSELF?")
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00067350       CALL VGREAD(JANSW,6)
00067400       IF (FINISH) GO TO 3570
00067450       WRITE(IP,3200)
00067500  3200 FORMAT(" DID THE COMPUTER HELP TO COMPARE YOURSELF WITH A JOB ?")
00067550       CALL VGREAD(JANSW,7)
00067600       IF (FINISH) GO TO 3570
00067650       WRITE(IP,3210)
00067700  3210 FORMAT(" DID THE COMPUTER HELP TO SORT THROUGH INFORMATION ?")
00067750       CALL VGREAD(JANSW,8)
00067800       IF (FINISH) GO TO 3570
00067850       WRITE(IP,3220)
00067900  3220 FORMAT(" WHICH SECTION HELPED YOU THE MOST?"/
00067950      1 5X,"1.  WORK INTERESTS"/5X,"2.  EDUCATION LEVEL"/
00068000      2 5X,"3.  WORK VALUES")
00068050  3230 READ (IR,3240,END=3570,DATA=3250) JANSW(9)
00068100  3240 FORMAT (I1)
00068150       IF (JANSW(9) .GE. 1 .AND. JANSW(9) .LE. 3) GO TO 3270
00068200  3250 WRITE (IP,3260)
00068250  3260 FORMAT (" PLEASE ENTER 1, 2 OR 3")
00068300       GO TO 3230
00068350  3270 WRITE (IP,3280)
00068400  3280 FORMAT (" DO YOU UNDERSTAND YOUR INTERESTS IN RELATION TO",
00068450      1 " CAREER POSSIBILITIES?")
00068500       CALL VGREAD(JANSW,10)
00068550       IF (FINISH) GO TO 3570
00068600       WRITE (IP,3290)
00068650  3290 FORMAT (" DO YOU UNDERSTAND HOW YOUR INTERESTS AFFECT",
00068700      1 " CAREER CHOICES?")
00068750       CALL VGREAD(JANSW,11)
00068800       IF (FINISH) GO TO 3570
00068850       WRITE (IP,3300)
00068900  3300 FORMAT (" DO YOU UNDERSTAND HOW YOUR EDUCATION AFFECTS",
00068950      1 " CAREER CHOICES?")
00069000       CALL VGREAD(JANSW,12)
00069050       IF (FINISH) GO TO 3570
00069100       DO 3310 I = 4,12
00069150          IF (I .NE. 9) GO TO 3310
00069200          IF (JANSW(I) .EQ. 1) JUSEF = JUSEF + 1
00069250  3310 CONTINUE
00069300 C
00069350 C     ----    FINISH
00069400 C
00069450       READ(IO=1,3320) MREC
00069500  3320 FORMAT(I6)
00069550       MREC=MREC+1
00069600       WRITE(IO=1,3320)MREC
00069650       WRITE(IO=MREC,3330) (ANAME(I),I=1,20),JSEX,JAGE,JSCHOL,JGRADE,
00069700      1                    JEMPL,(PERCCC(J),J=1,3),JUNEMP,
00069750      2                    ((CCONCCC(K,L),L=1,3),K=1,3),JCHOIC,WCODE,
00069800      3                    JEDLEV,(IWKVAL(1,I),I=1,13),
00069850      4                    ((OCC(M,N),N=1,18),M=1,5),DIFVAL,JANSW
00069900  3330 FORMAT(20A1,I1,I2,A1,I2,A1,3A6,A1,9A6,I1,3A1,14I1,90A1,
00069950      1       5F5.2,12I1)
00070000       INQUIRE(IO,LASTRECORD=JLAST)
00070050       IF(MREC.GT.JLAST-50) WRITE(IP,3340)
00070100  3340 FORMAT(" *** WARNING - USAGE DATA FILE FILLING UP ***")
00070150       CLOSE(IO,DISP=CRUNCH)
00070200 C
00070250       WRITE(IP,3350) (ANAME(I),I=1,NMLEN)
00070300  3350 FORMAT(///" THAT COMPLETES THIS RUN OF OSSIE JOE."/
00070350      * " I'VE ENJOYED TALKING TO YOU TODAY ",40A1)
00070400       WRITE(IP,3360)
00070450  3360 FORMAT(" AND I HOPE THAT YOU'VE FOUND THE EXPERIENCE WORTHWHILE,"/
00070500      *     " STIMULATING AND FUN"//10X,"SEE YOU AGAIN SOMETIME !")
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00070550 C
00070600 C     ----    PRINT OSSIE REPORT
00070650 C
00070700       IF (LSCRN) CALL VGSCRN
00070750       IF (FINISH) GO TO 3570
00070800       IF (JSCHOL .IS. YES) WRITE (F1,3370) NMLEN
00070850  3370 FORMAT (I2)
00070900       IF (JEMPL .IS. YES) WRITE (F2,3370) NMLEN
00070950       WRITE (F3,3370) NMLEN
00071000       WRITE (IP,3380) ANAME,DATE
00071050  3380 FORMAT (3(/),' O.S.S.I.E.:'/' '11('-')/
00071100      1 ' OCCUPATIONAL SELECTION BY SIMILAR INTEREST EXPLORATION'/
00071150      2 55('-')//' CLIENT:  ',40A1,10X,'DATE:  ',A6,A2//)
00071200       IF (JSCHOL .IS. YES)
00071250      *   WRITE (IP,FMT1) (ANAME(I),I=1,NMLEN),JAGE,JGRADE
00071300       IF (JEMPL .IS. YES)
00071350      *   WRITE (IP,FMT2) (ANAME(I),I=1,NMLEN),JAGE,PEROCC
00071400       WRITE (IP,3390) PRON(JSEX),JINTRO
00071450  3390 FORMAT (' ',A3,' WAS REFERRED FOR COMPUTER ASSISTED GUIDANCE BY ',
00071500      1 2A12)
00071550       IF (JCHOIC .LT. 4) WRITE (IP,3400) PRON(JSEX),((CONOCC(I,J),
00071600      1    J = 1,5),I = 1,3),PRON2(JSEX),(CONOCC(JCHOIC,K),K = 1,5)
00071650  3400 FORMAT (' CURRENTLY ',A3,' IS CONSIDERING THE FOLLOWING',
00071700      1 ' OCCUPATIONS '/3(5X,5A6/),' AND ',A3,' FIRST CHOICE IS ',
00071750      2 5A6,'.')
00071800       IF (JCHOIC .EQ. 4) WRITE (IP,3410) PRON(JSEX)
00071850  3410 FORMAT (' AND ',A3,' IS UNDECIDED ABOUT WHICH',
00071900      1 ' OCCUPATION TO CONSIDER.')
00071950       WRITE (IP,FMT3) (ANAME(I),I=1,NMLEN),EDUC(JEDLEV)
00072000       IF (LSCRN) CALL VGSCRN
00072050       IF (FINISH) GO TO 3570
00072100       WRITE (IP,3420)
00072150  3420 FORMAT ('0INTERESTS - THINGS YOU LIKE TO DO'/' ',33('-'))
00072200       WRITE (IP,1140)
00072250       WRITE(IP,3430)
00072300  3430 FORMAT('0CODE  OCCUPATIONAL YOUR     COMPARED  COMPARED  ',
00072350      1 'COMPARED TO'/7X,'AREA',9X,'RATING',3X,'TO MEN    TO WOMEN',
00072400      2 '   MEN & WOMEN'/32X,'I',9X,'I',10X,'I')
00072450       DO 3440 I=1,10
00072500         NPM = NPERCM(IPRATE(I),I)
00072550         NPF = NPERCF(IPRATE(I),I)
00072600         NPB = NPERCB(IPRATE(I),I)
00072650         WRITE(IP,1120) CODE(I),EQUIV(I),IPRATE(I),NPM,NPF,NPB
00072700  3440 CONTINUE
00072750       IF (NREC .EQ. 0) GO TO 3460
00072800       IF (LSCRN) CALL VGSCRN
00072850       IF (FINISH) GO TO 3570
00072900        WRITE (IP,1540)
00072950       DO 3450 I=1,NREC
00073000         WRITE(IP,1550)(STORE(J,I),J=1,10)
00073050         IF (I .NE. 22 .AND. I .NE. 44 .AND. I .NE. 66 .AND.
00073100      *      I .NE. 88 .AND. I .NE. NREC) GO TO 3450
00073150         IF (LSCRN) CALL VGSCRN
00073200         IF (FINISH) GO TO 3570
00073250  3450 CONTINUE
00073300  3460 WRITE (IP,3470) (WRKVALU(KCNT(I)),IWRKVAL(1,KCNT(I)),I = 1,13)
00073350  3470 FORMAT ('0WORK VALUES - THINGS THAT ARE IMPORTANT TO YOU'/
00073400      1 ' ',46('-')/'0THE WORK VALUE RATINGS YOU SELECTED ARE LISTED',
00073450      2 ' BELOW:'/'0',9X,'WORK VALUE',15X,'SELF RATING'//
00073500      3 (10X,A12,18X,I1))
00073550       IF (LSCRN) CALL VGSCRN
00073600       IF (FINISH) GO TO 3570
00073650       WRITE (IP,3480)
00073700  3480 FORMAT ('0WE CALCULATED THE DIFFERENCE BETWEEN YOUR VALUE',
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00073750       1 " RATINGS AND THOSE"/" FOR FIVE OCCUPATIONS.")
00073800        WRITE (IP,2800) ((OCC(I,J),J = 1,20),DIFVAL(I),I = 1,5)
00073850        IF (LSCRN) CALL VGSCRN
00073900        IF (FINISH) GO TO 3570
00073950        WRITE (IP,3490)
00074000  3490 FORMAT ("OCCCUPATIONAL CHOICES"/" ",20("-")/"OFIVE OCCUPATIONS",
00074050       1 " ARE LISTED IN THE ORDER THAT YOU PREFERRED THEM."/
00074100       2 " YOUR HIGHEST PREFERENCES ARE AT THE TOP.  THESE ARE",
00074150       3 " THE ONES"/" YOU SELECTED MOST OFTEN."//20X,"OCCUPATION",
00074200       4 10X,"NO. OF TIMES"/42X,"SELECTED"//)
00074250        WRITE (IP,2910) ((OCC(JCNT(I),J),J = 1,20),JSEL(I),I = 1,5)
00074300        WRITE (IP,2920) LEVEL(JLEV2)
00074350        IF (LSCRN) CALL VGSCRN
00074400        IF (FINISH) GO TO 3570
00074450        WRITE (IP,3500)
00074500  3500 FORMAT ("0THANK YOU FOR YOUR INTEREST IN OSSIE.")
00074550        IF (JUSEF .GT. 4) WRITE (IP,3510)
00074600  3510 FORMAT (" WE ARE PLEASED THAT YOU FOUND THE EXPERIENCE",
00074650       1 " WAS USEFUL.")
00074700        IF (JUSEF .LE. 4) WRITE (IP,3520)
00074750  3520 FORMAT (" WE ARE SORRY THAT THIS DID NOT LIVE UP TO YOUR",
00074800       1 " EXPECTATIONS"/" AND SUGGEST THAT YOU DISCUSS THIS WITH",
00074850       2 " A COUNSELLOR.")
00074900        GO TO 3570
00074950  C
00075000  C     ----     EXCESSIVE ERROR CONDITION
00075050  C
00075100   3530 WRITE(IP,3540)
00075150   3540 FORMAT(" EXCESSIVE ERRORS CAUSING ABNORMAL OSSIE JOB TERMINATION")
00075200        GO TO 3570
00075250  C
00075300  C     ----     REMOTE FILE ERROR
00075350  C
00075400   3550 WRITE(IP,3560,END=3570)
00075450   3560 FORMAT(" REMOTE FILE ERROR")
00075500   3570 CLOSE(IP,DISP=CRUNCH)
00075550        STOP
00075600        END
00075650        SUBROUTINE VGSCRN
00075700        COMMON /UNITS/ IR,IP,LSCRN,FINISH
00075750        LOGICAL LSCRN,FINISH
00075800        WRITE(IP,10)
00075850     10 FORMAT(" # TYPE IN A BLANK AND TRANSMIT FOR NEXT PAGE")
00075900        READ(IR,20,END=30) RESP
00075950     20 FORMAT (A1)
00076000        CALL CLSCRN
00076050        GO TO 40
00076100     30 FINISH = .TRUE.
00076150     40 RETURN
00076200        END
00076250        SUBROUTINE CLSCRN
00076300        COMMON /UNITS/ IR,IP,LSCRN,FINISH
00076350        LOGICAL LSCRN,FINISH
00076400        WRITE(IP,10)12
00076450     10 FORMAT(1X,C1/)
00076500        RETURN
00076550        END
00076600        SUBROUTINE VGREAD(JANSW,JAC)
00076650        DIMENSION JANSW(12)
00076700        LOGICAL LSCRN,FINISH
00076750        COMMON /UNITS/IR,IP,LSCRN,FINISH
00076800        DATA YES,NO/"Y","N"/
00076850     10 READ(IR,20,END=30,DATA=30) RESP
00076900     20 FORMAT(A1)
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00076950          IF(RESP.IS.YES) JANSW(JNO) = 1
00077000          IF(RESP.IS.NO ) JANSW(JNO) = 2
00077050          IF(JANSW(JNO).NE.0) GO TO 60
00077100       30 WRITE(IP,40)
00077150       40 FORMAT(" ANSWER Y FOR YES OR N FOR NO ONLY")
00077200          GO TO 10
00077250       50 FINISH = .TRUE.
00077300       60 RETURN
00077350          END
00077400          SUBROUTINE VGPRAT(INTER,IPRATE,IVAL)
00077450          DIMENSION IPRATE(10)
00077500          LOGICAL LSCRN,FINISH
00077550          DOUBLE PRECISION INTER
00077600          COMMON /UNITS/IR,IP,LSCRN,FINISH
00077650       10 WRITE(IP,20) INTER
00077700       20 FORMAT(" ",A12)
00077750          READ(IR,30,END=60,DATA=40) IPRATE(IVAL)
00077800          IF(IPRATE(IVAL).LE.7) GO TO 70
00077850       30 FORMAT(I1)
00077900       40 WRITE(IP,50)
00077950       50 FORMAT(" ENTER A NUMBER FROM 1 TO 7 ONLY")
00078000          GO TO 10
00078050       60 FINISH = .TRUE.
00078100       70 RETURN
00078150          END
00078200          SUBROUTINE RANK (CONSIS)
00078250 C
00078300 C
00078350 C     ----    ROUTINE TO CALCULATE JOB PREFERENCES AND CONSISTENCY
00078400 C     ----    OF SELECTION.
00078450 C
00078500 C
00078550          DIMENSION JPAIRS(2,10)
00078600          COMMON /UNITS/ IR,IP
00078650          COMMON /RANKS/ OCC(5,30),JTABLE(5,5),JSEL(5)
00078700          DATA JPAIRS / 3,5,1,2,4,5,2,3,1,4,2,5,3,4,1,5,2,4,1,3 /
00078750          DO 80 I = 1,10
00078800             JP1 = JPAIRS(1,I)
00078850             JP2 = JPAIRS(2,I)
00078900       10    WRITE (IP,20) (OCC(JP1,K),K = 1,30),(OCC(JP2,K),K = 1,30)
00078950       20    FORMAT("0WOULD YOU RATHER BE"//5X,"1. ",30A1," OR 2. ",30A1)
00079000             READ (IR,30,END=110,DATA=40) IRESP
00079050       30    FORMAT(I1)
00079100             IF (IRESP .EQ. 1) GO TO 60
00079150             IF (IRESP .EQ. 2) GO TO 70
00079200       40    WRITE (IP,50)
00079250       50    FORMAT (" PLEASE ENTER A RESPONSE OF 1 OR 2 ONLY")
00079300             GO TO 10
00079350       60    JTABLE(JP1,JP2) = 1
00079400             JTABLE(JP2,JP1) = 0
00079450             GO TO 80
00079500       70    JTABLE(JP2,JP1) = 1
00079550             JTABLE(JP1,JP2) = 0
00079600       80 CONTINUE
00079650          SUM = 0.0
00079700          AVSUM = (5.0 - 1.0) / 2.0
00079750          DIV = 5.0 * (5.0 ** 2 - 1.0)
00079800          DO 100 I = 1,5
00079850             JSEL(I) = 0
00079900             DO 90 J = 1,5
00079950             JSEL(I) = JSEL(I) + JTABLE(I,J)
00080000       90    CONTINUE
00080050             SUM = SUM + (FLOAT(JSEL(I)) - AVSUM) ** 2
00080100      100 CONTINUE
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00080150       CONSIS = 12 * SUM / DIV
00080200       GO TO 120
00080250   110 CLOSE (IP,DISP=CRUNCH)
00080300       STOP
00080350   120 RETURN
00080400       END
00080450       SUBROUTINE MPLZT1(DATE)
00080500 C
00080550 C        FUNCTION  -  RETURN THE CURRENT DATE IN THE
00080600 C                     FORM DD/MM/YY
00080650 C
00080700 C
00080750       DIMENSION DATE(2)
00080800       DATA DAT1/'  /  /'/,DAT2/'      '/
00080850       DATE(1) = DAT1
00080900       DATE(2) = DAT2
00080950       DAY = TIME(15)
00081000       DATE(1) = CONCAT(DATE(1),DAY,47,31,16)
00081050       DATE(1) = CONCAT(DATE(1),DAY,23,47,16)
00081100       DATE(2) = CONCAT(DATE(2),DAY,47,15,16)
00081150       RETURN
00081200       END
00081250       SUBROUTINE MPLZE7 (A,B,N)
00081300 C----
00081350 C----    ONE-DIMENSIONAL SORT ON A REAL/INTEGER ARRAY PLUS AN
00081400 C----    ASSOCIATED ARRAY USING THE SHELL-SORT METHOD
00081450 C----          - NUMERIC SORT
00081500 C----
00081550 C----    A     = INPUT ARRAY TO BE SORTED
00081600 C----            OUTPUT ARRAY SORTED IN ASCENDING SEQUENCE
00081650 C----
00081700 C----    B      = ARRAY ASSOCIATED WITH ARRAY A, TO BE SORTED
00081750 C----             ALONG WITH THE ARRAY A
00081800 C----
00081850 C----    N     = NUMBER OF ITEMS IN THE ARRAY TO BE SORTED
00081900 C----
00081950       DIMENSION A(N),B(N)
00082000       IF (N .LT. 2) RETURN
00082050 C----
00082100       M = N
00082150    10 M = M / 2
00082200       IF (M .LT. 1) RETURN
00082250       M1 = N + 1
00082300       DO 40 I=M1,N
00082350          TEMP = A(I)
00082400          TEMPB = B(I)
00082450          J = I - M
00082500    20    IF (A(J) .LE. TEMP) GO TO 30
00082550          JM = J + M
00082600          A(JM) = A(J)
00082650          B(JM) = B(J)
00082700          J = J - M
00082750          IF (J .GE. 1) GO TO 20
00082800    30    JM = J + M
00082850          A(JM) = TEMP
00082900          B(JM) = TEMPB
00082950    40 CONTINUE
00083000       GO TO 10
00083050       END
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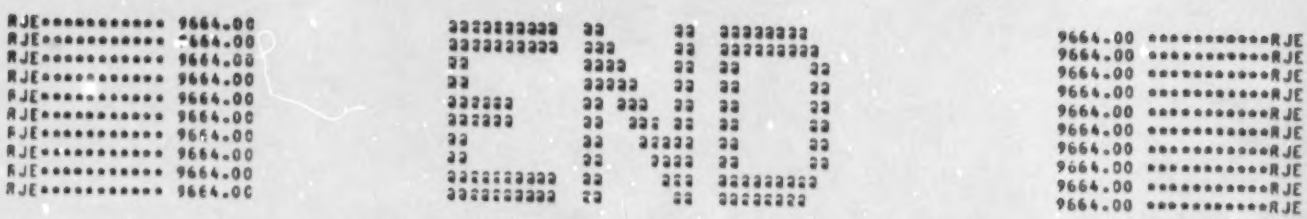

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00000100 FILE  1(KIND=DISK,FILETYPE=7,TITLE="MASTER/LI/CODES")
00000200 FILE  2((IND)=PRINTER,PROTECTION=SAVE)
00000300 C
00000400       DIMENSION PERM(200),WKINT(3),CODES(6),JFREQ(700)
00000500       DATA CODES /"R","I","A","S","L","C"/,JFREQ /700*0/,NUM /0/
00000600       DO 50 I = 1,6
00000700          DO 20 J = 1,6
00000800             IF (J .EQ. I) GO TO 20
00000900             DO 10 K = 1,6
00001000                IF (K .EQ. J .OR. K .EQ. I) GO TO 10
00001100                NUM = NUM + 1
00001200                PERM(NUM) = I * 100 + J * 10 + K
00001300    10       CONTINUE
00001400    20    CONTINUE
00001500    30 CONTINUE
00001600 C
00001700    40 READ (1,50,END=99) WKINT
00001800    50 FORMAT (3A1)
00001900       JCODE = 0
00002000       DO 80 I = 1,3
00002100          DO 60 J = 1,6
00002200             IF (WKINT(I) .IS. CODES(J)) GO TO 70
00002300    60    CONTINUE
00002400    70    JCODE = JCODE * 10 + J
00002500    80 CONTINUE
00002600       JFREQ(JCODE) = JFREQ(JCODE) + 1
00002700       GO TO 40
00002800 C
00002900    90 WRITE (2,100) (PERM(I),JFREQ(PERM(I)),I=1,NUM)
00003000   100 FORMAT (10X,I3,5X,I5)
00003100       CLOSE(2,DISP=CRUNCH)
00003200       STOP
00003300       END
```


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```
00000100 FILE  1(KIND=DISK,FILETYPE=7,TITLE="(XXPFOR)MASTER/LI/VOCASS")
00000200 FILE  5(KIND=READER)
00000300 FILE  6(KIND=PRINTER,PROTECTION=SAVE)
00000400 C
00000500       DIMENSION OSSIE(5,72)
00000600 C
00000700       DATA IO /1/,NOREC /0/,BLANK /" "/
00000800       READ (5,/,END=5) NOREC
00000900     5 READ(I)=1,10) NREC
00001000    10 FORMAT(I6)
00001100       ISTREC = NREC - NOREC + 1
00001200       IF (NOREC .EQ. 0 .OR. ISTREC .LE. 1) ISTREC = 2
00001300    30 LSTREC = ISTREC + 4
00001400       IF (LSTREC .GT. NREC) LSTREC = NREC
00001500       IJ = 0
00001600       DO 50 IREC = ISTREC,LSTREC
00001700          IJ = IJ + 1
00001800          READ (IO=IREC,49) ((OSSIE(IJ,J),J=1,72)
00001900    40    FORMAT (3A6,A2,I1,I2,A1,I2,A1,3A6,A1,9A6,I1,3A1,1611,15A6,
     1              5F5.2,12I1)
00002000
00002100    50 CONTINUE
00002900       WRITE (6,60) IJ,((OSSIE(I,J),J=1,4),I=1,IJ),
00003000      1             (IJ,(OSSIE(I,4),I=1,IJ),J=5,9),
00003100      2             IJ,((OSSIE(I,J),J=10,12),I=1,IJ),
00003200      3             IJ,(OSSIE(I,13),I=1,IJ),
00003210      4             IJ,((OSSIE(I,J),J=14,16),I=1,IJ),
00003230      5             IJ,((OSSIE(I,J),J=17,19),I=1,IJ),
00003250      6             IJ,((OSSIE(I,J),J=20,22),I=1,IJ),
00003300      7             IJ,(OSSIE(I,23),I=1,IJ),
00003350      8             (IJ,(OSSIE(I,J),I=1,IJ),J=24,26),
00003400      9             (IJ,(OSSIE(I,J),I=1,IJ),J=27,40)
00003500    60 FORMAT ("1",//" NAME",16X,(3A6,A2)/" SEX",17X,(9X,I1,10X)/
00003600     *  " AGE",17X,(8X,I2,10X)/
00003700      1  " AT SCHOOL",11X,(9X,A1,10X)/" GRADE",15X,(8X,I2,10X)/
00003800      2  " EMPLOYED",12X,(9X,A1,10X)/" OCCUPATION",10X,(3A6,2X)/
00003900      3  " UNEMPLOYED",10X,(9X,A1,10X)/" OCCUPATIONS   1",4X,(3A6,
00004000      4  2X)/" BEING      *   2",4X,(3A6,2X)/
00004100      5  " CONSIDERED *   3",4X,(3A6,2X)/
00004200      6  " FIRST CHOICE",8X,(9X,I1,10X)/" HIGHEST WORK *   1",2X,
00004300      7  (9X,A1,10X)/" INTEREST     *   2",2X,(9X,A1,10X)/
00004400      8  " CODES          *   3",2X,(9X,A1,10X)/" EDUCATIONAL LEVEL",
00004500      9  3X,(9X,I1,10X)/" ALTRUISM RATING",5X,(9X,I1,10X)/
00004600      A  " CREATIVITY",10X,(9X,I1,10X)/" INDEPENDENCE",8X,
00004700      B  (9X,I1,10X)/" INTELLECTUAL STIMUL.",(9X,I1,10X)/
00004800      C  " ACHIEVEMENT",9X,(9X,I1,10X)/" MANAGEMENT",10X,
00004900      D  (9X,I1,10X)/" SECURITY",12X,(9X,I1,10X)/" PRESTIGE",
00005000      E  12X,(9X,I1,10X)/" MONEY",15X,(9X,I1,10X)/
00005100      F  " SURROUNDINGS",8X,(9X,I1,10X)/" ASSOCIATES",10X,
00005200      G  (9X,I1,10X)/" SUPERVISORS",9X,(9X,I1,10X)/
00005300      H  " VARIETY",13X,(9X,I1,10X))
00005400       WRITE (6,70) IJ,((OSSIE(I,J),J=41,43),I=1,IJ),
00005500      1             IJ,((OSSIE(I,J),J=44,46),I=1,IJ),
00005600      2             IJ,((OSSIE(I,J),J=47,49),I=1,IJ),
00005700      3             IJ,((OSSIE(I,J),J=50,52),I=1,IJ),
00005800      4             IJ,((OSSIE(I,J),J=53,55),I=1,IJ),
00005900      5             (IJ,(OSSIE(I,J),I=1,IJ),J=56,60),
00006000      6             (IJ,(OSSIE(I,J),I=1,IJ),J=61,69)
00006100    70 FORMAT (" OCCUPATION 1",8X,(3A6,2X)/" OCCUPATION 2",8X,
00006200      1   (3A6,2X)/" OCCUPATION 3",8X,(3A6,2X)/
00006300      2   " OCCUPATION 4",8X,(3A6,2X)/" OCCUPATION 5",8X,(3A6,2X)/
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00006400      3   * DIFFERENCE*   1*,5X,*(7X,F5.2,8X)/* VALUES    *   2*,5X,
00006500      4   *(7X,F5.2,8X)/15X,"3",5X,*(7X,F5.2,8X)/15X,"4",5X,
00006600      5   *(6X,F5.2,8X)/15X,"5",5X,*(7X,F5.2,8X)/
00006700      6   * JOBS DESCRIBED GOOD?",*(9X,I1,10X)/
00006800      7   * FACILITIES GOOD?    ",*(9X,I1,10X)/
00006900      8   * CHANGED AMBITIONS?  ",*(9X,I1,10X)/
00007000      9   * COMPUTERS INTER.?   ",*(9X,I1,10X)/
00007100      A   * COMPUTERS HELPF.?   ",*(9X,I1,10X)/
00007200      B   * SELF-PICTURE?       ",*(9X,I1,10X)/
00007300      C   * SELF VS. JOB?       ",*(9X,I1,10X)/
00007400      D   * SORTING INFO.?      ",*(9X,I1,10X)/
00007500      E   * WHICH SECTION MOST HELP?"/
00007600      F   * 1. WORK INTEREST    ",*(9X,I1,10X)/
00007700      G   * 2. EDUCATIONAL LEVEL"/" 3. WORK VALUES")
00007800        WRITE (6,80) ((J,(OSSIE(I,J),I=1,18),J=70,72)
00007900     30 FORMAT (" INT. VS. CAREER?    ",*(9X,I1,10X)/
00008000      1   * INT. AFFECT CAREER? ",*(9X,I1,10X)/
00008100      2   * EDUC. AFFECT CAREER?",*(9X,I1,10X))
00008200        ISTREC = ISTREC + 5
00008300        IF (ISTREC .LE. NREC ) GO TO 30
00008400        STOP
00008500        END
```


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RIA00330ARCHITECTURAL DRAFTSMAN
RIA00300DENTAL TECHNICIAN/MECHANIC
RIS10000FORESTER
RIS12000INDUSTRIAL ARTS TEACHER
RIS02330RADIO OPERATOR
RIS00040ELECTRICIAN
RIS00005MILLER/FOREMAN (GRAIN)
RIS02040JEWELLER
RIS00340PLANT OPERATOR (POWER STATION)
RIS00040ELECTRICAL MECHANIC (POWER STATION)
RIS00040SKILLED TRADESPERSON*
RIS00040TOOL MAKER
RIS00340GLAZIER
RIS00040WEAVING MECHANIC
RIS00040BAKER
RIS00040COOK (COMMERCIAL)
RIS00005SERVICE STATION ATTENDANT
RIS00005HEAT TREATER
RIS00040OPTICAL MECHANIC
RIS00040WELDER
RIS00005WIRE WORKER
RIS00005OFFSET PRESS OPERATOR (PRINTING)
RIE12000AUTOMOTIVE ENGINEER
RIE12000MECHANICAL ENGINEER
RIE12000MINING ENGINEER
RIE12000CIVIL ENGINEER
RIE02300INDUSTRIAL ENGINEERING TECHNICIAN
RIE02300MECHANICAL ENGINEERING TECHNICIAN
RIE00040GROUND ENGINEER (AIRCRAFT)
RIE00050AIR TRAFFIC CONTROLLER
RIE00340MOTOR MECHANIC
RIE00040WATCH REPAIRER
RIE00340BOILERMAKER
RIE02300DRAFTSPERSON
RIE00040ELECTROPLATER
RIE00045GARAGE SUPERVISOR
RIE12305FARMER
RIE00040LINEMAN
RIE00005LOOM THREADER
RIE00045MACHINE REPAIRER
RIE00005MACHINIST
RIE00045GENERAL REPAIRER (FACTORY, MILL ETC.)
RIE00045MACHINE ERECTOR (INDUSTRIAL)
RIE00040MECHANIC, RADIO
RIE00340MECHANIC
RIE00340PLUMBER
RIE00040SHEET METAL WORKER
RIE00040PANELBEATER
RIE00005AIR COMPRESSOR DRIVER
RIE00005ENGRAVER (NOT PRINTING)
RIE00005HEAVY EQUIPMENT OPERATOR
RIE00045ROOF TILER
RIE00340UPHOLSTERER
RIE00C05MACHINE OPERATOR*
RIC00040STONEMASON
RIC00045LATHE OPERATOR
RIC00340LIFT MECHANIC
RIC00005LOCKSMITH
RIC02300NUCLEAR REACTOR TECHNICIAN
RIC02340NURSERY WORKER (PLANTS)

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RIC00345TREE SURGEON
RIC00005PIANO TUNER
RIC00040TELEGRAPH MECHANIC
RIC00045METAL DRILLER
RIC00305DRY CLEANER
RIC00045GRINDER*
RIC00040ROLLER (JEWELLERY)
RIC00040PRINTING PRESS OPERATOR
RIC00305SHIPPING/RECEIVING CLERK
RIC00045STRUCTURAL STEEL WORKER
RIC00005TYRE RETREADER
RIC00040SHOE REPAIRER
RIC00045GARDENER
RAI00040COMPOSITOR (TYPESETTER)
RAI00040BOOKBINDER
RSE00040BLACKSMITH
RSE00305FIREMAN (RAILWAY)
RSE00005PIPE LAYER
RSE00040MOULDER (FOUNDRY)
RSE00005CONDUCTOR (RAILWAY)
RSE00340BARBER
RSE00040BUTCHER
RSE00005POLICE OFFICER
RSE00005DETECTIVE
RSE00305FIRE FIGHTER (AEROPLANES)
RSE00005TRAM DRIVER
RSE00005TAXICAB DRIVER
RSE00005CHAUFFEUR
RSE00305WAITRESS/WAITER
RSE00005MILK BAR ATTENDANT
RSE00005LABOURER, GUARD, CARETAKER, WATCHMAN, STOREMAN*
RSE00005PARKING LOT ATTENDANT
RSC00005DEBT COLLECTOR
RSC00005LIFT DRIVER
RSC00005KITCHEN HAND
RSC12300AGRICULTURE LECTURER
RSC00040GAS FITTER
RSC00040WEAVER (COMMERCIAL)
RSC00040KNITTER (COMMERCIAL)
REC00305MAID (MOTEL/HOTEL)
REI00040REFRIGERATION MECHANIC
REI00040SHOP/PLANT FOREMAN
REI12005SHIPS PILOT
REI00005TRACK LAYER (RAILWAYS)
RES00005FISH AND GAME WARDEN
RES00005TRAIN DRIVER
RES12305CATTLE FARMER
RES00005CRATE MAKER
RES00005PACKER
RES00005RAILWAY SWITCHMAN
RES00305STOCK CLERK
RES00005FISHERMAN
RCI10300SURVEYOR
RCI00040ELECTRICAL MECHANIC
RCI00305MOTION PICTURE PROJECTIONIST
RCI00045TYPEWRITER MECHANIC
RCI00040CARPENTER
RCI00045PAINTER (HOUSE, BUILDING, EQUIPMENT)
RCI00305SURVEYOR'S ASSISTANT (CHAINMAN)
RCS00040TELEGRAPHIC MECHANIC
RCS00040TAILOR
RCS00040DRESSMAKER
RCS00040WALL AND FLOOR TILER
RCS00005EXPLOSIVES EXPERT (BLASTER, POWDERMAN ETC.)
RCS00340BRICKLAYER
RCS00005BUS DRIVER
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RCS00005CONCRETOR
RCS00000DRESSMAKER
RCS00005FURNACE OPERATOR
RCS00005POSTMAN
RCS00005METER READER
RCS00005MINER
RCS00005SAILOR (SEAMAN)
RCS00040PLASTERER
RCS00005HEAVY EQUIPMENT DRIVER
RCS00005SPINNER
RCE00005RIGGER
RCE00005GRADER (FRUIT, FISH ETC.)
RCE00005TRUCK DRIVER
RCE00005TRACTOR DRIVER
RCE00005FORKLIFT DRIVER
IAS12000ECONOMIST
IAS10000DOCTOR (INDUSTRY)
IAR10000ANTHROPOLOGIST
IAR10000ASTRONOMER
IAR10000PATHOLOGIST
IAR10000PHYSICIST
IAR10000CHEMIST
ISC10000PRODUCTION ENGINEER
ISC02300LABORATORY TECHNICIAN (MEDICAL)
ISC00040T.V. REPAIRER
ISR10000BIOLOGIST
ISR02000OSTEOPATH
ISR02000CHIROPRACTOR
ISR12000MATHEMATICS TEACHER
ISR12000NATURAL SCIENCE TEACHER
ISR10000OPTOMETRIST
ISA10000DOCTOR.
ISA10000PSYCHIATRIST
ISA10000PSYCHOLOGIST
ISA12300MEDICAL TECHNOLOGIST
IES10000BACTERIOLOGIST
IES10000PHYSIOLOGIST
IES10000PHARMACIST
IES12000RESEARCH ASSISTANT (SCIENTIFIC)
IEC10000ACTUARY
ICR02300QUALITY CONTROL TECHNICIAN
ICR00005COMPUTER OPERATOR
ITA10000GEOLOGIST
ITA10000MATHEMATICIAN, STATISTICIAN
ITA10000SURGEON
ITA10000METEOROLOGIST
ITA00005WEATHER OBSERVER
IRS10000AGRONOMIST
IRS00305ANIMAL HUSBANDMAN
IRS10000BOTANIST
IRS12300HORTICULTURIST
IRS10000NATURAL SCIENTIST.
IRS10000OCEANOGRAPHER
IRS10000ZOOLOGIST
IRS10000BIOCHEMIST
IRS00300ENGINEERING TECHNICIAN
IRS10000VETERINARIAN
IRS10000GEOGRAPHER
IRS02000X-RAY TECHNICIAN
IRE10000AERONAUTICAL ENGINEER
IRE10000CHEMICAL ENGINEER
IRE10000DENTIST
IRE02300METALLURGIST TECHNICIAN
IRE10000METALLURGIST
IRE10000ENGINEER.
IRE02300CHEMICAL LABORATORY TECHNICIAN

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IRE10000ELECTRICAL ENGINEER
IRE10000AEROSPACE ENGINEER
IRE00300ELECTRONICS TECHNICIAN
IRC00005AEROPLANE NAVIGATOR
IRC12300COMPUTER PROGRAMMER
IRC00045TOOL DESIGNER
IRC00045MODEL MAKER
IRC00005AEROPLANE PILOT
IRC00300ENGINEERING TECHNICIAN *
IRC00040SCIENTIFIC INSTRUMENT MAKER
IRC00300LABORATORY TECHNICIAN
IRC00005TESTER-ELECTRONIC SYSTEMS
IRC00040TOOL MAKER
ASE12005DRAMA COACH
ASE12000ENGLISH TEACHER
ASE12005JOURNALIST/REPORTER
ASE12005DRAMA TEACHER
ASE00005DANCING TEACHER
ASE12300FOREIGN LANGUAGE INTERPRETER
ASI10000PHILOSPHER
ASI12000ART TEACHER
ASI12300LITERATURE TEACHER
ASI12000MUSIC TEACHER
ASI00005MUSICIAN
ASI12000ORCHESTRA LEADER
AES12300ADVERTISING EXECUTIVE
AES12300ADVERTISING MANAGER
AES00005ENTERTAINER (SINGER, DANCER)
AES01305PUBLIC RELATIONS PERSON
AES00005FASHION MODEL
AIS12005WRITER
AIS12005EDITOR
AIS12005RADIO PROGRAM WRITER
AIS12005DRAMATIST
AIS12005ACTRESS/ACTOR
AIS12305DESIGNER
AIS00300INTERIOR DECORATOR
AIS00005CRITIC (REVIEWER)
AIS00305FASHION ILLUSTRATOR
AIS12305FURNITURE DESIGNER
AIS12005JEWELLERY DESIGNER
AIS00005FURRIER
AIS00305WOMEN'S GARMENT DESIGNER
AIE00300DECORATOR (COMMERCIAL)
AIR10000ARCHITECT
AIR12305ARTIST
AIR12305PHOTOGRAPHER
AIR00040PHOTOLITHOGRAPHER
AIR00305PHOTOGRAPHIC RETOUCHER AND FINISHER
SEC12000DIRECTOR, SOCIAL SERVICE AGENCY
SEC12005COMPENSATION ADVISER
SEC02000RECREATION OFFICER
SEC12300EMPLOYMENT OFFICER
SEC00005FUNERAL DIRECTOR
SEC00005INTERVIEWER
SEC12000JOB ANALYST
SEC12300CHAMBER OF COMMERCE EXECUTIVE
SEC00300DIETARY AIDE
SEC00005BARTENDER
SEC00005HOSTESS/HOST (HOTEL, TEAROOM ETC.)
SER00305INSURANCE CLAIMS INVESTIGATOR
SER00305PRODUCTION CLERK (ESTIMATING)
SER12300HEALTH & WELFARE CO-ORDINATOR
SEI12000EDUCATIONAL ADMINISTRATOR
SEI12305TRAINING OFFICER
SEI12000HISTORIAN

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SEI12000HISTORY TEACHER
SEI00300APPLIANCES DEMONSTRATOR/REPRESENTATIVE
SEA12000COUNSELLOR
SEA10000DIPLOMAT
SCE02000RECREATION DIRECTOR
SCE00005UNION REPRESENTATIVE
SCE00005CHIEF HOUSEKEEPER (HOTEL/MOTEL, MEDICAL SERVICES, ETC.)
SCE12300HEALTH INSPECTOR
SCE00005THEATRE MANAGER
SCE02345CATERER
SCE00005LIQUOR STORE MANAGER
SCE00005RESTAURANT PROPRIETOR
SCE00005CORRESPONDENCE CLERK
SCE00005PASSENGER-BOOKING CLERK
SRI12300AGRICULTURAL ADVISER
SRE12005ATHLETIC COACH
SRE12000PHYSICAL EDUCATION TEACHER
SRE12305BUILDING MANAGER
SRE00005HOUSEKEEPER
SRE10000OCCUPATIONAL THERAPIST
SRE12300GOVERNESS
SRE00005ATHLETE
SRE00005HOUSE PARENT (INSTITUTION)
SRC00005WARD ATTENDANT
SIA10000UNIVERSITY PROFESSOR
SIA10000POLITICAL SCIENTIST
SIA10000SOCIAL SCIENTIST •
SIA10000SOCIOLOGIST
SIA12300REGISTERED NURSE
SIA10000SOCIAL WORKER
SIA02000RECREATION OFFICER
SIA12000REHABILITATION COUNSELLOR
SIE02300BUILDING INSPECTOR
SIE12300PERSONNEL OFFICER
SIE12000DIETITIAN
SIE00005EXPLOSIONS INSPECTOR
SIC12000SCHOOLS SUPERINTENDENT
SIC12300HEALTH INSPECTOR
SIC00005POLITICIAN
SIC12000SOCIAL SCIENCES TEACHER
SIC12305YWCA/YMCA SECRETARY
SIC12000PAROLE OFFICER
SIR02000PODIATRIST (FOOT DOCTOR)
SIR10000PHYSIOTHERAPIST
SIR00000THERAPIST •
SAE12300HOME ECONOMIST
SAE00005HOUSEWIFE
SAE12000HOME ECONOMICS TEACHER
SAE12000FOREIGN LANGUAGE TEACHER
SAE10000SPEECH TEACHER
SAE12000TEACHER •
SAC00065BEAUTICIAN
SAC09005ELECTROLYSIS EXPERT
SAC00040HAIRDRESSER
SAC00005MANICURIST
SAI12005MINISTER (PRIEST)
SAI12000PRIMARY SCHOOL TEACHER
SAI12300LIBRARIAN
SAI12000SPECIAL EDUCATION TEACHER
SAI10000AUDIOLOGIST
SAI10000SPEECH THERAPIST
SAI00305DENTAL ASSISTANT
SAI00005DENTAL NURSE
SAI00005NURSING AIDE
ECI12300MARKETING ANALYST
ECI12300BANKER
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ECS12305GRAIN BUYER
ECS00305INSURANCE UNDERWRITER
ECS02800REAL ESTATE VALUER
ECS00305BUYER (PURCHASING AGENT)
ECS00005REAL ESTATE SALESPERSON
ECS00005SUPERVISOR TICKET SALES
ECS00005FLORIST (DEALER)
ECS00005ART GOODS DEALER
ECS00005FURNITURE DEALER
ECS10C00INDUSTRIAL ENGINEER
ECS12305FARM MANAGER
ECS00305CONTRACTOR
ERS00005WAREHOUSE MANAGER
ERC00005POSTMASTER/MISTRESS
ERC10305SALESPERSON, TECHNICAL PRODUCTS
EAS10005LAWYER, SOLICITOR, MAGISTRATE, BARRISTER
EAR00005RADIO/T.V. ANNOUNCER
ESC12300ADMINISTRATIVE ASSISTANT
ESC12305BRANCH MANAGER
ESC12300INDUSTRIAL RELATIONS CONSULTANT
ESC12300EMPLOYMENT OFFICER
ESC12305GOVERNMENT OFFICER
ESC12305INSURANCE MANAGER
ESC12305MANAGER/ADMINISTRATOR
ESC12305OPERATIONS MANAGER
ESC00005MANAGER, RESTAURANT/BAR
ESC00305PERSONNEL ASSISTANT
ESC12305PERSONNEL ADMINISTRATOR
ESC12305RECRUITMENT OFFICER
ESC12300PRODUCTION MANAGER
ESC00305SALARY AND WAGES ADMINISTRATOR
ESC12305SALES MANAGER
ESC00305DISTRIBUTION MANAGER
ESC00005MANAGER (ENTERTAINER)
ESC12000ARBITRATION & CONCILIATION OFFICER
ESC12305OFFICE MANAGER
ESC00005CUSTOMER SERVICES MANAGER
ESC00005MANAGER, HOME UNITS/FLATS
ESC00005INSURANCE INVESTIGATOR
ESC12300DEMONSTRATOR
ESC00305DESPATCHER, MOTOR VEHICLES
ESC00005SHOP ASSISTANT
ESC00305SALESPERSON *
ESR00005SPORTING GOODS SALESPERSON
ESR00305TRAVELLING SALESPERSON
ESI12305DIRECTOR OF ADMINISTRATIVE SERVICES
ESI12300SYSTEMS ANALYST, BUSINESS ED*
ESI12300DIRECTOR, COMPENSATION
ESI00305LIFE ASSURANCE SALESPERSON
ESI12000MANPOWER ADVISOR
ESI00005ENCYCLOPAEDIA SALESPERSON
ESI00005CAR DEALER
ESI00305SERVICE STATION MANAGER
ESI00005GIFT SHOP MANAGER
ESI00305GROCER
ESI02C05IMPORTER-EXPORTER (WHOLESALER)
ESI00305RETAILER
ESI00005SHOE STORE MANAGER
ESA12305STOCKBROKER
ESA02C00RECREATION OFFICER
ESA12305TRAVEL GUIDE
ESA00305SALESPERSON, PHOTOGRAPHIC EQUIPMENT AND SUPPLIES
ESA00C05SALESPERSON, MUSICAL INSTRUMENTS AND ACCESSORIES
ESA00005AIR HOSTESS/STEWARD
CRI00005TIMEKEEPER
CRI00305ACCOUNTING MACHINE OPERATOR

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